

Product List

Immunoassays, Receptors, Antigens, Antibodies and Sera

January 2020



The Native Antigen Company is a leading supplier of native and recombinant viral and bacterial antigens, antibodies and immunoassays. Our infectious disease reagents are widely adopted by pharmaceutical, in vitro diagnostics and vaccine manufacturers, as well as leading academic groups in cutting-edge research, where correct folding and glycosylation of proteins is vital. We also offer our expertise on a contract basis to other sectors where highly purified proteins are required.

Immunoassays

The Native Antigen Company's immunoassays for Zika virus are the most specific and sensitive assays available on the market. Further immunoassays are in development, so please check with a member of our team if you have any enquiries.

| Immunoassay | Format | Size |
|---|--------|---------|
| Borrelia burgdorferi IgG ELISA | ELISA | 96-Well |
| Borrelia burgdorferi IgM ELISA | ELISA | 96-Well |
| Chikungunya Virus IgG ELISA | ELISA | 96-Well |
| Chikungunya Virus IgM ELISA | ELISA | 96-Well |
| Dengue Virus IgG ELISA | ELISA | 96-Well |
| Dengue Virus IgM ELISA | ELISA | 96-Well |
| Dengue Virus IgM μ -Capture ELISA | ELISA | 96-Well |
| Hantavirus IgG ELISA | ELISA | 96-Well |
| Hantavirus IgM ELISA | ELISA | 96-Well |
| Legionella pneumophila IgG ELISA | ELISA | 96-Well |
| Legionella pneumophila IgM ELISA | ELISA | 96-Well |
| Measles Virus IgG ELISA | ELISA | 96-Well |
| Measles Virus IgG Avidity ELISA | ELISA | 96-Well |
| Measles Virus IgM ELISA | ELISA | 96-Well |
| Mumps Virus IgG ELISA | ELISA | 96-Well |
| Mumps Virus Ig ELISA | ELISA | 96-Well |
| Rubella Virus IgG ELISA | ELISA | 96-Well |
| Rubella Virus IgG Avidity ELISA | ELISA | 96-Well |
| Rubella Virus IgM ELISA | ELISA | 96-Well |
| Tick-Borne Encephalitis Virus IgG ELISA | ELISA | 96-Well |
| Tick-Borne Encephalitis IgM ELISA | ELISA | 96-Well |
| Zika Virus IgM ELISA | ELISA | 96-Well |

Virus Receptors

The Native Antigen Company is developing a range of virus receptors for use in studying the interaction of viruses with their target cells. These reagents may be used in the development on in vitro assays for investigating potential methods to block virus-to-cell binding.

| Receptor | Source | Purity | Presentation |
|---------------------------------|------------------------|--------|--------------|
| AXL (Human) | Human Cell Recombinant | >95% | Liquid |
| CLEC4M (Human) | Human Cell Recombinant | >95% | Liquid |
| DAG (Human) | Human Cell Recombinant | >95% | Liquid |
| DC-Sign (Human) | Human Cell Recombinant | >95% | Liquid |
| Ephrin B2 (Human) | Human Cell Recombinant | >95% | Liquid |
| Integrin Alpha-5 Beta-3 (Human) | Human Cell Recombinant | >90% | Liquid |
| MOG (Human) | Human Cell Recombinant | >90% | Liquid |
| MXRA8 Protein (Human) | Human Cell Recombinant | >90% | Liquid |
| Neuropilin 2 (Human) | Human Cell Recombinant | >95% | Liquid |

Antigens

The Native Antigen Company produces both native and recombinant antigens from a range of established and emerging viral, bacterial and protozoal diseases using our proprietary mammalian expression system. Our antigens are suitable for use in vaccine R&D, as components for serological based diagnostic assays and for fundamental research into infectious disease. Our team has a wealth of experience in providing bulk and customised formats to the life sciences industry and can also run custom projects to suit your needs.

| Antigen | Source | Purity | Presentation |
|--|-------------------------|-------------|--------------|
| Adenovirus Type 3, Wild-Type Particles | Native | 99% | Liquid |
| Adenovirus Type 5, Wild-Type Particles | Native | 99% | Liquid |
| Adenovirus Type 11, Wild-Type Particles | Native | Cell Lysate | Liquid |
| Adenovirus Type 40, Wild-Type Particles | Native | 95% | Liquid |
| Adenovirus Type 40 Hexon Protein | Native | 95% | Liquid |
| African Swine Fever Virus p30 | E. coli Recombinant | >90% | Liquid |
| African Swine Fever Virus pp62 Polyprotein | Human Cell Recombinant | >85% | Liquid |
| Astrovirus Type 1 Antigen | Native | Cell Lysate | Liquid |
| A. californica Multiple Nucleopolyhedrovirus Lysate | Insect Cell Recombinant | Cell Lysate | Liquid |
| Borrelia afzelii Whole Antigen | Native | N/A | Liquid |
| Borrelia garinii Whole Antigen | Native | N/A | Liquid |
| Bordetella pertussis Filamentous Hemagglutinin (FHA) | Native | 98% | Lyophilised |
| Bordetella pertussis Toxin (50% Glycerol) | Native | 98% | Liquid |
| Bordetella pertussis Toxin (Liquid) | Native | 98% | Liquid |

| Antigen | Source | Purity | Presentation |
|--|-------------------------|-------------|--------------|
| Bordetella pertussis Toxin (Lyophilised) | Native | 98% | Lyophilised |
| Borrelia burgdorferi C(p) | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi C(t) | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi CRASP-1 | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi CRASP-2 | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi DbpA | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi DbpB | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi ErpD/Arp37 | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi ErpN/OspE | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi Flagellin | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi OspA | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi OspB | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi OspC | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi P35 | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi P39 | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi Surface Lipoprotein P27 | E. coli Recombinant | >90% | Liquid |
| Borrelia burgdorferi VlsE | E. coli Recombinant | >90% | Liquid |
| Canine Parvovirus 2 VP2 Capsid Protein | Insect Cell Recombinant | >90% | Lyophilised |
| CCHF Virus Gc Protein | Human Cell Recombinant | >90% | Liquid |
| CCHF Virus Gn Protein | Human Cell Recombinant | >90% | Liquid |
| CCHF Virus Nucleoprotein | Human Cell Recombinant | >95% | Liquid |
| Chikungunya Virus E1 Envelope Protein | Human Cell Recombinant | 95% | Liquid |
| Chikungunya Virus E1 Envelope Protein | Insect Cell Recombinant | 95% | Liquid |
| Chikungunya Virus E1 Envelope Protein Mutant (A226V) | Insect Cell Recombinant | 95% | Liquid |
| Chikungunya Virus E2 Envelope Protein | Human Cell Recombinant | 95% | Liquid |
| Chikungunya Virus E2 Envelope Protein | E. coli Recombinant | 95% | Liquid |
| Chikungunya Virus Lysate | Native | Cell lysate | Liquid |
| Chikungunya Virus VLP | Human Cell Recombinant | >90% | Liquid |
| Chlamydia trachomatis Antigen | Native | Cell lysate | Liquid |
| Cholera Toxin Subunit B | Human Cell Recombinant | 90% | Lyophilised |
| Clostridium difficile Toxin A | Native | 98% | Lyophilised |
| Clostridium difficile Toxin A (Ribotype 027) | Native | >95% | Lyophilised |
| Clostridium difficile Toxin A (Ribotype 078) | Native | >90% | Lyophilised |
| Clostridium difficile Toxin B | Native | 98% | Lyophilised |
| Clostridium difficile Toxin B (Ribotype 027) | Native | >95% | Lyophilised |
| Clostridium difficile Toxin B (Ribotype 078) | Native | >95% | Lyophilised |

| Antigen | Source | Purity | Presentation |
|---|-------------------------|-------------|--------------|
| Clostridium difficile Toxoid A | Native | 98% | Lyophilised |
| Clostridium difficile Toxoid B | Native | 98% | Lyophilised |
| CMV (High Purity) Antigen | Native | 95% | Liquid |
| CMV Cell Lysate Antigen | Native | Cell lysate | Liquid |
| CMV gB (Towne) | Human Cell Recombinant | >85% | Lyophilised |
| CMV gB (BE/14/2011) | Human Cell Recombinant | >95% | Liquid |
| CMV gH Pentamer Complex | Human Cell Recombinant | >95% | Liquid |
| Crimean-Congo Haemorrhagic Fever virus gC | Human Cell Recombinant | >90% | Liquid |
| Dengue Virus Serotype 1 Envelope Protein | Insect Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 1 Envelope Protein | Human Cell Recombinant | >90% | Liquid |
| Dengue Virus Serotype 1 DIII Envelope Protein | E. coli Recombinant | >95% | Liquid |
| Dengue Virus Serotype 1 Lysate | Native | Cell Lysate | Liquid |
| Dengue Virus Serotype 1 NS1 Protein | Human Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 1 NS1 Protein | Insect Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 1 VLP | Human Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 2 Envelope Protein | Insect Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 2 Envelope Protein | Human Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 2 Envelope Hydrophobic Domain | E. coli Recombinant | >95% | Liquid |
| Dengue Virus Serotype 2 DIII Envelope Protein | E. coli Recombinant | >95% | Liquid |
| Dengue Virus Serotype 2 Lysate | Native | Cell Lysate | Liquid |
| Dengue Virus Serotype 2 NS1 | Human Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 2 NS1 | Insect Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 2 VLP | Human Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 2 Pre-Membrane (prM) Protein | E. coli Recombinant | >95% | Liquid |
| Dengue Virus Serotype 3 Envelope Protein | Human Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 3 Envelope Protein | Insect Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 3 DIII Envelope Protein | E. coli Recombinant | >95% | Liquid |
| Dengue Virus Serotype 3 Lysate | Native | Cell Lysate | Liquid |
| Dengue Virus Serotype 3 NS1 | Human Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 3 NS1 | Insect Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 3 VLP | Human Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 4 Envelope Protein | Human Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 4 Envelope Protein | Insect Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 4 DIII Envelope Protein | E. coli Recombinant | >95% | Liquid |
| Dengue Virus Serotype 4 Lysate | Native | Cell Lysate | Liquid |
| Dengue Virus Serotype 4 NS1 | Human Cell Recombinant | >95% | Liquid |

| Antigen | Source | Purity | Presentation |
|---|-------------------------|--------|--------------|
| Dengue Virus Serotype 4 NS1 | Insect Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 4 VLP | Human Cell Recombinant | >95% | Liquid |
| Dengue Virus Serotype 1 & 3 Envelope Fusion Protein | E. coli Recombinant | >95% | Liquid |
| Dengue Virus Serotype 1 & 4 Envelope Fusion Protein | E. coli Recombinant | >95% | Liquid |
| Dengue Virus Serotype 2 & 4 Envelope Fusion Protein | E. coli Recombinant | >95% | Liquid |
| Dengue Virus NS1 4-Serotype Pack | Human Cell Recombinant | >95% | Liquid |
| Dengue Virus VLP 4-Serotype Pack | Human Cell Recombinant | >95% | Liquid |
| Dengue Virus Pan-Serotype P18 Protein | E. coli Recombinant | >95% | Liquid |
| Dengue Virus Pan-Serotype P42 Protein | E. coli Recombinant | >95% | Liquid |
| Diphtheria Toxin | Native | >98% | Lyophilised |
| Diphtheria Toxin (CRM197 Mutant) | E. coli Recombinant | >99% | Lyophilised |
| Ebola Virus Envelope GP (Zaire) | Human Cell Recombinant | >85% | Lyophilised |
| Ebola Virus Envelope GP (Zaire, Boende-Lokolia) | Human Cell Recombinant | >85% | Liquid |
| Ebola Virus Envelope GP1 (Bundibugyo) | Human Cell Recombinant | >95% | Lyophilised |
| Ebola Virus Envelope GP1 (Zaire) | Human Cell Recombinant | >95% | Lyophilised |
| Ebola Virus Envelope GP1 (Zaire, Boende-Lokolia) | Human Cell Recombinant | >85% | Liquid |
| Ebola Virus Nucleoprotein (Sudan) | E. coli Recombinant | >95% | Liquid |
| Ebola Virus Nucleoprotein (Zaire) | E. coli Recombinant | >95% | Liquid |
| Ebola Virus Envelope sGP (Bundibugyo) | Human Cell Recombinant | >95% | Lyophilised |
| Ebola VLP | Human Cell Recombinant | >80% | Liquid |
| EBV GP125 Protein | Human Cell Recombinant | >80% | Liquid |
| Echovirus Antigen | E. coli Recombinant | N/A | Liquid |
| Enterovirus Whole Antigen | E. coli Recombinant | Whole | Liquid |
| Enterovirus CoxB3 VP1 Protein | E. coli Recombinant | >85% | Liquid |
| Feline Leukemia Virus Core Protein | E. coli Recombinant | 90% | Liquid |
| Feline Leukemia Virus P27 Protein | E. coli Recombinant | >95% | Liquid |
| Flavivirus NS1 Protein Pack | Human Cell Recombinant | >95% | Liquid |
| Hantaan Virus Nucleoprotein | Human Cell Recombinant | N/A | Liquid |
| Hantavirus Nucleoprotein | E. coli Recombinant | >95% | Liquid |
| HBV Core Protein | Human Cell Recombinant | >95% | Liquid |
| HBV Envelope Protein | Human Cell Recombinant | >95% | Liquid |
| HCV Core Protein | E. coli Recombinant | >90% | Frozen |
| HBV Core Protein | Human Cell Recombinant | >95% | Liquid |
| HBV Envelope Protein | Human Cell Recombinant | >95% | Liquid |
| HCV Core Protein | E. coli Recombinant | >90% | Frozen |
| HEV Capsid Protein (ORF2) | Human Cell Recombinant | >95% | Liquid |

| Antigen | Source | Purity | Presentation |
|--|------------------------|-------------|--------------|
| HIV Gag Protein (HIV-1/Clade B (IIIB)) | E. coli Recombinant | >90% | Liquid |
| HIV GP120 Protein (HIV-1/Clade B (89BZ_167)) | Human Cell Recombinant | >95% | Liquid |
| HIV GP120 Protein (HIV-1/Clade AE (CM240)) | Human Cell Recombinant | >95% | Liquid |
| HIV GP120 Protein (HIV-1/Clade E (CM244)) | Human Cell Recombinant | >95% | Lyophilised |
| HIV GP120 Protein (HIV-1/Clade BC (CN54)) | Human Cell Recombinant | >95% | Lyophilised |
| HIV GP120 Protein (HIV-1/Clade C (16055)) | Human Cell Recombinant | >95% | Liquid |
| HIV GP120 Protein (HIV-1/Clade A (KNH1144)) | Human Cell Recombinant | >95% | Liquid |
| HIV GP120 Protein (HIV-1/Clade A (KNH1144)) | Human Cell Recombinant | >95% | Liquid |
| HIV GP41 Protein (HIV-1/Clade B (IIIB)) | E. coli Recombinant | >95% | Liquid |
| HIV GP41 Protein (HIV-1/Clade B) | E. coli Recombinant | >95% | Liquid |
| HIV GP41 Protein (HIV-1/Group O) | E. coli Recombinant | >95% | Liquid |
| HIV Integrase Protein (HIV-1/Clade B (IIIB)) | E. coli Recombinant | >90% | Liquid |
| HIV Nef Protein (HIV-1/Clade B (IIIB)) | E. coli Recombinant | >90% | Liquid |
| HIV P24 Protein (HIV-1/Clade C) | E. coli Recombinant | >95% | Liquid |
| HIV Reverse Transcriptase (HIV-1/Clade B (IIIB)) | E. coli Recombinant | >90% | Liquid |
| HIV Tat Protein (HIV-1/Clade A (UGMED5)) | E. coli Recombinant | >90% | Lyophilised |
| HIV Tat Protein (HIV-1/Clade B (BH10)) | E. coli Recombinant | >90% | Lyophilised |
| HIV Tat Protein (HIV-1/Clade C (TV019)) | E. coli Recombinant | >90% | Lyophilised |
| HIV Tat Protein (HIV-1/Clade D (UG28R)) | E. coli Recombinant | >90% | Lyophilised |
| HSV gG2 Protein | Native | ≥80% | Liquid |
| HSV-1 Antigen (High Purity) | Native | 80% | Liquid |
| HSV-1 Lysate Antigen | Native | Cell Lysate | Liquid |
| HSV-2 Antigen (High Purity) | Native | 80% | Liquid |
| HSV-2 Lysate Antigen | Native | Cell Lysate | Liquid |
| Human Coronavirus 229E Nucleoprotein | E. coli Recombinant | >95% | Liquid |
| Human Coronavirus NL63 Nucleoprotein | E. coli Recombinant | >95% | Liquid |
| Influenza A Virus HA (H1N1) | Human Cell Recombinant | >95% | Liquid |
| Influenza A Virus HA (H5N1) | Human Cell Recombinant | >95% | Lyophilised |
| Influenza A Virus HA (H7N9) | Human Cell Recombinant | >95% | Lyophilised |
| Influenza A Virus HA (H9N2) | Human Cell Recombinant | >95% | Lyophilised |
| Influenza A Virus HA1 (H9N2) | Human Cell Recombinant | >95% | Lyophilised |
| Influenza A Virus NA (H5N1) | Human Cell Recombinant | >90% | Lyophilised |
| Japanese Encephalitis Virus Envelope Protein | Human Cell Recombinant | >95% | Liquid |
| Japanese Encephalitis Virus NS1 | Human Cell Recombinant | >95% | Liquid |
| Japanese Encephalitis Virus VLP | Human Cell Recombinant | >90% | Liquid |
| Lassa Fever Virus GP1 | Human Cell Recombinant | >95% | Liquid |

| Antigen | Source | Purity | Presentation |
|---|-------------------------|-------------|--------------|
| Lassa Fever Virus GP2 | Human Cell Recombinant | >95% | Liquid |
| Lassa Fever Virus Nucleoprotein | Human Cell Recombinant | >95% | Liquid |
| Leptospira Biflexa Whole Antigen (Strain Patoc 1) | Native | N/A | Liquid |
| Mayaro Virus E2 Protein | Human Cell Recombinant | >90% | Liquid |
| Mayaro Virus Lysate (TRVL15537 strain) | Native | Cell Lysate | Liquid |
| Mayaro Virus Lysate (TRVL4675 strain) | Native | Cell Lysate | Liquid |
| Mayaro Virus VLP | Human Cell Recombinant | >90% | Liquid |
| Measles Virus Large Polymerase | E. coli Recombinant | >95% | Liquid |
| Measles Virus Lysate | Native | N/A | Liquid |
| Measles Virus Nucleoprotein | Human Cell Recombinant | N/A | Liquid |
| MERS-CoV Spike Glycoprotein | Human Cell Recombinant | 85% | Liquid |
| MERS-CoV Spike Glycoprotein | Insect Cell Recombinant | 95% | Liquid |
| Mumps Virus Lysate | Native | Cell Lysate | Liquid |
| Mycoplasma pneumoniae Antigen | Native | 95% | Liquid |
| Neisseria gonorrhoeae Antigen | Native | Cell Lysate | Liquid |
| Nipah Virus Glycoprotein F | Human Cell Recombinant | >90% | Liquid |
| Nipah Virus Glycoprotein G | Human Cell Recombinant | >90% | Liquid |
| Nipah Virus Nucleoprotein | Human Cell Recombinant | >90% | Liquid |
| Norovirus GI. 1 VLP | Insect Cell Recombinant | >90% | Liquid |
| Norovirus GII. 4 VP1 VLP | Human Cell Recombinant | >95% | Liquid |
| O'nyong'nyong Virus VLP | Human Cell Recombinant | >90% | Liquid |
| Oropouche Virus Gc Protein | Human Cell Recombinant | >70% | Liquid |
| Oropouche Virus Gn Protein | Human Cell Recombinant | >90% | Liquid |
| Oropouche Virus Nucleoprotein | E. coli Recombinant | >95% | Liquid |
| Parvovirus VP2 Protein | Human Cell Recombinant | >95% | Liquid |
| Pan-Plasmodium Aldolase Protein | E. coli Recombinant | >95% | Liquid |
| Plasmodium falciparum HRP-II Protein | E. coli Recombinant | >95% | Liquid |
| Plasmodium falciparum LDH Protein | E. coli Recombinant | >95% | Liquid |
| Plasmodium falciparum MSP1 Protein | E. coli Recombinant | >90% | Liquid |
| Plasmodium vivax LDH Protein | E. coli Recombinant | >95% | Liquid |
| Plasmodium vivax MSP1 Protein | E. coli Recombinant | >95% | Liquid |
| Powassan Virus NS1 | Human Cell Recombinant | >95% | Liquid |
| Puumala Virus GP1 | Human Cell Recombinant | >90% | Liquid |
| Puumala Virus GP2 | Human Cell Recombinant | >90% | Liquid |
| Recombinant Human IgE (Kappa L) | Human Cell Recombinant | N/A | Liquid |
| Rift Valley Fever Virus Nucleoprotein | Human Cell Recombinant | >95% | Liquid |

| Antigen | Source | Purity | Presentation |
|--|-------------------------|-------------|--------------|
| Ross River Virus VLP | Human Cell Recombinant | >85% | Liquid |
| RSV A gG Protein | Human Cell Recombinant | >95% | Liquid |
| RSV A gG Protein | Human Cell Recombinant | >90% | Lyophilised |
| Rubella Virus Capsid Nucleoprotein | Human Cell Recombinant | >95% | Liquid |
| Rubella Virus Lysate | Native | Cell Lysate | Liquid |
| Rubella Virus Spike Glycoprotein E1 | Human Cell Recombinant | >95% | Liquid |
| Rubella Virus VLP | Human Cell Recombinant | >95% | Liquid |
| SARS Coronavirus Nucleoprotein | E. coli Recombinant | >95% | Liquid |
| SARS Coronavirus Membrane Protein | E. coli Recombinant | >95% | Liquid |
| SARS Coronavirus Envelope Protein | E. coli Recombinant | >95% | Liquid |
| SARS Coronavirus Spike Glycoprotein Mosaic (S1) | E. coli Recombinant | >95% | Liquid |
| SARS Coronavirus Spike Glycoprotein Mosaic (S2) | E. coli Recombinant | >95% | Liquid |
| SARS Coronavirus Spike Glycoprotein Mosaic (S2, S2') | E. coli Recombinant | >95% | Liquid |
| TBEV Capsid (Core) Protein | E. coli Recombinant | >95% | Liquid |
| TBEV Domain III Protein | E. coli Recombinant | >95% | Liquid |
| TBEV (Strain Moscow B-4) | Native | Cell Lysate | Liquid |
| TBEV NS3 Protein | E. coli Recombinant | >95% | Liquid |
| TBEV Pre-Membrane (prM) Protein | E. coli Recombinant | >95% | Liquid |
| Toxocara canis Antigen | Native Antigen | N/A | Liquid |
| Wesselsbron Virus NS1 protein | Human Cell Recombinant | >90% | Liquid |
| West Nile Virus Envelope Protein | Human Cell Recombinant | >95% | Liquid |
| West Nile Virus 2 lysate (1986 strain) | Native | Cell Lysate | Liquid |
| West Nile Virus 2 lysate (B-956 Uganda strain) | Native | Cell Lysate | Liquid |
| West Nile virus lysate (NY 2001-6263 strain) | Native | Cell Lysate | Liquid |
| West Nile Virus NS1 | Human Cell Recombinant | >95% | Liquid |
| West Nile Virus Pre-Membrane Protein | E. coli Recombinant | >95% | Liquid |
| Yellow Fever Virus Envelope Protein | Human Cell Recombinant | >90% | Liquid |
| Yellow Fever Virus Envelope Protein | Insect Cell Recombinant | >90% | Liquid |
| Yellow Fever Virus Lysate (Asibi strain) | Native | Cell Lysate | Liquid |
| Yellow Fever Virus Lysate (17D strain) | Native | Cell Lysate | Liquid |
| Yellow Fever Virus NS1 | Human Cell Recombinant | >95% | Liquid |
| Zika Virus DIII Envelope Protein | E. coli Recombinant | >95% | Liquid |
| Zika Virus Envelope Protein | Human Cell Recombinant | >95% | Liquid |
| Zika Virus Infected Vero Cell Lysate | Native | Cell Lysate | Liquid |
| Zika Virus Lysate | Native | Cell Lysate | Liquid |
| Zika Virus Lysate (DakArD 41662 strain) | Native | Cell Lysate | Liquid |

| Antigen | Source | Purity | Presentation |
|-------------------------------------|------------------------|-------------|--------------|
| Zika Virus Lysate (MR766 strain) | Native | Cell Lysate | Liquid |
| Zika Virus Lysate (PRVABC59 strain) | Native | Cell Lysate | Liquid |
| Zika Virus NS1 (Duo Pack) | Human Cell Recombinant | >85% | Liquid |
| Zika Virus NS1 (Suriname Strain) | Human Cell Recombinant | >85% | Liquid |

Antibodies

We are developing the world's most extensive range of antibodies for infectious disease targets. Our portfolio includes a unique panel of highly specific antibodies for flavivirus NS1 proteins, such as serotype-specific reagents for Dengue and human chimeric antibodies to Zika NS1.

| Antibody Specificity | Host | Purity | Presentation |
|---|-------------------|--------|--------------|
| Adenovirus Hexon Protein | Mouse Monoclonal | >95% | Liquid |
| Astrovirus | Mouse Monoclonal | >95% | Liquid |
| Borrelia burgdorferi CRASP-1 | Rabbit Polyclonal | >95% | Liquid |
| Borrelia burgdorferi CRASP-2 | Rabbit Polyclonal | >95% | Liquid |
| Borrelia burgdorferi DbpA | Rabbit Polyclonal | >95% | Liquid |
| Borrelia burgdorferi DbpB | Rabbit Polyclonal | >95% | Liquid |
| Borrelia burgdorferi Erpd/Arp37 | Rabbit Polyclonal | >95% | Liquid |
| Borrelia burgdorferi ErpN/OspE | Rabbit Polyclonal | >95% | Liquid |
| Borrelia burgdorferi Flagellin | Rabbit Polyclonal | >95% | Liquid |
| Borrelia burgdorferi garinii | Mouse Monoclonal | >95% | Liquid |
| Borrelia burgdorferi OspA | Rabbit Polyclonal | >95% | Liquid |
| Borrelia burgdorferi OspB | Rabbit Polyclonal | >95% | Liquid |
| Borrelia burgdorferi OspC | Rabbit Polyclonal | >95% | Liquid |
| Borrelia burgdorferi P35 | Rabbit Polyclonal | >95% | Liquid |
| Borrelia burgdorferi P39 | Rabbit Polyclonal | >95% | Liquid |
| Borrelia burgdorferi Surface Lipoprotein P27 | Rabbit Polyclonal | >95% | Liquid |
| Borrelia burgdorferi VlsE | Rabbit Polyclonal | >95% | Liquid |
| Borrelia burgdorferi Whole Cell Lysate | Rabbit Polyclonal | >95% | Liquid |
| Burkholderia Mallei (Sap1-43) | Mouse Monoclonal | N/A | Liquid |
| Burkholderia Mallei LPS (3D11) | Mouse Monoclonal | N/A | Liquid |
| Campylobacter jejuni | Mouse Monoclonal | >95% | Liquid |
| Canine Coronavirus Nucleoprotein (M700) | Mouse Monoclonal | N/A | Liquid |
| Canine Coronavirus Nucleoprotein (M700) | Mouse Monoclonal | N/A | Liquid |
| Canine Distemper Virus Surface Envelope (5-4) | Mouse Monoclonal | N/A | Liquid |
| Canine Distemper Virus Surface Envelope (8-1) | Mouse Monoclonal | N/A | Liquid |
| Canine Heartworm | Mouse Monoclonal | >90% | Liquid |
| Canine Parvovirus 2 | Mouse Monoclonal | N/A | Liquid |
| CCHF Virus Gn Protein | Mouse Monoclonal | >95% | Liquid |
| CCHF Virus Nucleoprotein | Mouse Monoclonal | >95% | Liquid |
| Chikungunya Virus | Sheep Polyclonal | >90% | Liquid |
| Chikungunya Virus Capsid Protein | Mouse Monoclonal | >95% | Liquid |

| Antibody Specificity | Host | Purity | Presentation |
|---|------------------|--------|--------------|
| Chikungunya Virus E2 Protein | Mouse Monoclonal | >95% | Liquid |
| Chikungunya Virus VLP | Mouse Monoclonal | >95% | Liquid |
| Chlamydia LPS | Mouse Monoclonal | >95% | Liquid |
| Chlamydia MOMP | Mouse Monoclonal | >95% | Liquid |
| Cholera Toxin Beta Subunit | Mouse Monoclonal | >95% | Liquid |
| Clostridium difficile GDH | Mouse Monoclonal | >95% | Liquid |
| Clostridium difficile Toxin A | Mouse Monoclonal | >95% | Liquid |
| Clostridium difficile Toxin B | Mouse Monoclonal | >95% | Liquid |
| CMV Glycoprotein B | Mouse Monoclonal | >95% | Liquid |
| CMV Glycoprotein H | Mouse Monoclonal | >90% | Liquid |
| CMV ICP36 Antigen | Mouse Monoclonal | >90% | Liquid |
| CMV Pentamer Protein | Sheep Polyclonal | >90% | Liquid |
| CMV Phosphoprotein 28 | Mouse Monoclonal | >90% | Liquid |
| CMV Phosphoprotein 65 | Mouse Monoclonal | >90% | Liquid |
| Coxsackievirus B3 Antibody | Mouse Monoclonal | >90% | Liquid |
| Dengue Virus Envelope Protein (Pan-Serotype) | Mouse Monoclonal | >95% | Liquid |
| Dengue Virus Envelope Protein (Serotypes 1-4) | Mouse Monoclonal | >95% | Liquid |
| Dengue Virus prM Protein (Serotypes 1-4) | Mouse Monoclonal | >95% | Liquid |
| Dengue Virus NS1 (Pan-Serotype) | Mouse Monoclonal | >95% | Liquid |
| Dengue Virus NS1 (Serotype 1) | Human Monoclonal | >95% | Liquid |
| Dengue Virus NS1 (Serotype 1) | Mouse Monoclonal | >95% | Liquid |
| Dengue Virus NS1 (Serotype 2) | Mouse Monoclonal | >95% | Liquid |
| Dengue Virus NS1 (Serotype 3) | Mouse Monoclonal | >95% | Liquid |
| Dengue Virus NS1 (Serotype 4) | Mouse Monoclonal | >95% | Liquid |
| Dengue Virus Serotype 2 | Mouse Monoclonal | >95% | Liquid |
| Diphtheria Toxin | Mouse Monoclonal | >90% | Liquid |
| Diphtheria Toxin A | Mouse Monoclonal | >90% | Liquid |
| Ebola Virus | Sheep Polyclonal | >90% | Liquid |
| Ebola Virus Nucleoprotein | Mouse Monoclonal | >90% | Liquid |
| Ebola Virus VP40 | Mouse Monoclonal | >90% | Liquid |
| Enterovirus (Strain 70) | Mouse Monoclonal | >90% | Liquid |
| Enterovirus VP1 (Strain 71) | Mouse Monoclonal | >90% | Liquid |
| Escherichia coli O157 | Mouse Monoclonal | >95% | Liquid |
| Feline Leukemia Virus P27 Protein | Mouse Monoclonal | >90% | Liquid |
| Flavivirus Envelope Protein | Human Monoclonal | >95% | Liquid |
| Flavivirus Envelope Protein | Mouse Monoclonal | >95% | Liquid |

| Antibody Specificity | Host | Purity | Presentation |
|--|-------------------|--------|--------------|
| Flavivirus NS1 | Mouse Monoclonal | >95% | Liquid |
| Giardia lamblia Trophozoite | Mouse Monoclonal | >95% | Liquid |
| Hantavirus Nucleocapsid Protein | Mouse Monoclonal | >90% | Liquid |
| Hepatitis A Virus | Mouse Monoclonal | >90% | Liquid |
| Hepatitis A Virus VP3 | Mouse Monoclonal | >90% | Liquid |
| Hepatitis B Virus Core Protein | Mouse Monoclonal | >90% | Liquid |
| Hepatitis B Virus E Antigen | Mouse Monoclonal | >90% | Liquid |
| Hepatitis B Virus Pre-S Region | Mouse Monoclonal | >90% | Liquid |
| Hepatitis B Virus Surface Antigen | Mouse Monoclonal | >90% | Liquid |
| Hepatitis B Virus X Protein | Mouse Monoclonal | >90% | Liquid |
| Hepatitis C Virus Core Protein | Mouse Monoclonal | >90% | Liquid |
| Hepatitis C Virus Core Protein (29-39aa) | Mouse Monoclonal | >90% | Liquid |
| Hepatitis C Virus Core Protein (33-38aa) | Mouse Monoclonal | >90% | Liquid |
| Hepatitis C Virus E1 | Mouse Monoclonal | >90% | Liquid |
| Hepatitis C Virus E2 | Mouse Monoclonal | >90% | Liquid |
| Hepatitis C Virus NS3 | Mouse Monoclonal | >90% | Liquid |
| Hepatitis C Virus NS3 (1252-1477aa) | Mouse Monoclonal | >90% | Liquid |
| Hepatitis C Virus NS3 Helicase | Mouse Monoclonal | >90% | Liquid |
| Hepatitis C Virus NS4A (1700-1710aa) | Mouse Monoclonal | >90% | Liquid |
| Hepatitis C Virus NS4B (1689-1735aa) | Mouse Monoclonal | >90% | Liquid |
| Hepatitis C Virus NS4B (1710-1730aa) | Mouse Monoclonal | >90% | Liquid |
| Hepatitis C Virus NS4A/B (1658-1863aa) | Mouse Monoclonal | >90% | Liquid |
| Hepatitis C Virus NS5A | Mouse Monoclonal | >90% | Liquid |
| Hepatitis C Virus NS5B | Mouse Monoclonal | >90% | Liquid |
| Herpes Simplex Virus Glycoprotein D | Mouse Monoclonal | >95% | Liquid |
| Herpes Simplex Virus 2 Glycoprotein D | Mouse Monoclonal | >95% | Liquid |
| Herpes Simplex Virus Type 2 | Mouse Monoclonal | >95% | Liquid |
| HIV-1 gp41 | Mouse Monoclonal | >95% | Liquid |
| HIV-1 gp120 | Mouse Monoclonal | >95% | Liquid |
| HIV-1 Integrase | Mouse Monoclonal | N/A | Liquid |
| HIV-1 p17 | Mouse Monoclonal | >95% | Liquid |
| HIV-1 p24 | Mouse Monoclonal | >95% | Liquid |
| HIV-1 Tat | Rabbit Polyclonal | N/A | Liquid |
| Human Papilloma Virus L1 | Mouse Monoclonal | >95% | Liquid |
| Human Papilloma Virus Type 11 | Mouse Monoclonal | >95% | Liquid |
| Human Papilloma Virus Type 16 | Mouse Monoclonal | >95% | Liquid |

| Antibody Specificity | Host | Purity | Presentation |
|---|-------------------|--------|--------------|
| Human Papilloma Virus Type 18 | Mouse Monoclonal | >95% | Liquid |
| IgG (Human, purified IgG) | Goat Polyclonal | >95% | Liquid |
| IgG (Human, purified IgG:FITC) | Goat Polyclonal | >95% | Liquid |
| IgG (Human, purified IgG:Alk Phos) | Goat Polyclonal | >95% | Liquid |
| IgG (Human, purified IgG:HRP) | Goat Polyclonal | >95% | Liquid |
| IgG (Mouse, purified IgG) | Goat Polyclonal | >95% | Liquid |
| IgG (Mouse, purified IgG:FITC) | Goat Polyclonal | >95% | Liquid |
| IgG (Mouse, purified IgG:Alk Phos) | Goat Polyclonal | >95% | Liquid |
| IgG (Mouse, purified IgG:HRP) | Goat Polyclonal | >95% | Liquid |
| IgG (Rabbit, purified IgG) | Goat Polyclonal | >95% | Liquid |
| IgG Fc (Mouse, purified IgG) | Goat Polyclonal | >95% | Liquid |
| IgG Fc (Mouse, purified IgG:FITC) | Goat Polyclonal | >95% | Liquid |
| IgG Fc (Mouse, purified IgG:Alk Phos) | Goat Polyclonal | >95% | Liquid |
| IgG Fc (Mouse, purified IgG:HRP) | Goat Polyclonal | >95% | Liquid |
| IgG Fc (Human, purified IgG) | Goat Polyclonal | >95% | Liquid |
| IgG Fc (Human, purified IgG:FITC) | Goat Polyclonal | >95% | Liquid |
| IgG Fc (Human, purified IgG:Alk Phos) | Goat Polyclonal | >95% | Liquid |
| IgG Fc (Human, purified IgG:HRP) | Goat Polyclonal | >95% | Liquid |
| IgG Mouse-Adsorbed (Human, purified IgG:Alk Phos) | Goat Polyclonal | >95% | Liquid |
| IgG Mouse-Adsorbed (Human, purified IgG:HRP) | Goat Polyclonal | >95% | Liquid |
| IgG (H+L) (Sheep, purified IgG) | Rabbit Polyclonal | >95% | Liquid |
| IgG (H+L) (Sheep, purified IgG:FITC) | Rabbit Polyclonal | >95% | Liquid |
| IgG (H+L) (Sheep, purified IgG:Alk Phos) | Rabbit Polyclonal | >95% | Liquid |
| IgG (H+L) (Sheep, purified IgG:HRP) | Rabbit Polyclonal | >95% | Liquid |
| IgG1 Isotype Control (Mouse) | Mouse Monoclonal | >95% | Liquid |
| IgG2a Isotype Control (Mouse) | Mouse Monoclonal | >95% | Liquid |
| IgG2b Isotype Control (Mouse) | Mouse Monoclonal | >95% | Liquid |
| IgM (Human) | Goat Polyclonal | >95% | Liquid |
| Influenza A | Mouse Monoclonal | >95% | Liquid |
| Influenza B | Mouse Monoclonal | >95% | Liquid |
| Japanese Encephalitis Virus NS1 | Mouse Monoclonal | >95% | Liquid |
| Lassa Fever Virus GP1 | Mouse Monoclonal | N/A | Liquid |
| Lassa Fever Virus GP2 | Mouse Monoclonal | N/A | Liquid |
| Legionella pneumophila | Mouse Monoclonal | >95% | Liquid |
| Legionella pneumophila LPS | Mouse Monoclonal | >90% | Liquid |
| Leptospira | Rabbit Polyclonal | >95% | Liquid |

| Antibody Specificity | Host | Purity | Presentation |
|---------------------------------------|------------------|--------|--------------|
| Listeria monocytogenes | Mouse Monoclonal | >95% | Liquid |
| Marburg Virus | Mouse Monoclonal | N/A | Liquid |
| Mayaro Virus E1 | Mouse Monoclonal | >95% | Liquid |
| Mayaro Virus E2 | Mouse Monoclonal | >90% | Liquid |
| Measles Virus | Mouse Monoclonal | N/A | Liquid |
| MERS Coronavirus Spike Protein (S1) | Mouse Monoclonal | N/A | Liquid |
| Metapneumovirus (Human) | Mouse Monoclonal | >95% | Liquid |
| Mumps Virus Nucleoprotein | Mouse Monoclonal | >90% | Liquid |
| Mycoplasma pneumoniae P1 | Mouse Monoclonal | >95% | Liquid |
| Nipah virus Glycoprotein F | Mouse Monoclonal | >95% | Liquid |
| Nipah virus Glycoprotein G | Mouse Monoclonal | >95% | Liquid |
| Norovirus GI | Mouse Monoclonal | >95% | Liquid |
| Norovirus GII | Mouse Monoclonal | >95% | Liquid |
| O'nyong'nyong Virus VLP | Mouse Monoclonal | N/A | Liquid |
| Plasmodium falciparum MSP1 | Mouse Monoclonal | N/A | Liquid |
| Plasmodium falciparum HRP-2 | Mouse Monoclonal | >95% | Liquid |
| Plasmodium vivax CSP | Mouse Monoclonal | N/A | Liquid |
| Plasmodium vivax MSP1 | Mouse Monoclonal | N/A | Liquid |
| Plasmodium (Pan-Strain) | Mouse Monoclonal | >95% | Liquid |
| Poliovirus | Goat Polyclonal | >95% | Liquid |
| Powassan Virus NS1 | Mouse Monoclonal | >95% | Liquid |
| RSV | Mouse Monoclonal | >95% | Liquid |
| Rhinovirus VP3 | Mouse Monoclonal | >95% | Liquid |
| Rift Valley Fever Virus Nucleoprotein | Mouse Monoclonal | >95% | Liquid |
| Ross River Virus E2 Glycoprotein | Mouse Monoclonal | N/A | Liquid |
| Rotavirus | Mouse Monoclonal | >95% | Liquid |
| Rubella Virus Glycoprotein E1 | Mouse Monoclonal | >90% | Liquid |
| Rubella Virus Glycoprotein E2 | Mouse Monoclonal | >90% | Liquid |
| SARS Coronavirus E2 Glycoprotein | Mouse Monoclonal | N/A | Liquid |
| SARS Coronavirus Membrane | Mouse Monoclonal | N/A | Liquid |
| SARS Coronavirus Nucleoprotein | Mouse Monoclonal | >90% | Liquid |
| Salmonella Paratyphi | Mouse Monoclonal | >95% | Liquid |
| Salmonella Typhi | Mouse Monoclonal | >95% | Liquid |
| Staphylococcus aureus enterotoxin A | Mouse Monoclonal | >95% | Liquid |
| Staphylococcus aureus enterotoxin B | Mouse Monoclonal | >95% | Liquid |
| Staphylococcus aureus enterotoxin G | Mouse Monoclonal | >95% | Liquid |

| Antibody Specificity | Host | Purity | Presentation |
|-------------------------------------|-------------------|--------|--------------|
| Staphylococcus aureus enterotoxin I | Mouse Monoclonal | >95% | Liquid |
| Streptavidin:Alkaline Phosphatase | N/A | >95% | Liquid |
| Streptavidin:FITC | N/A | >95% | Liquid |
| Streptavidin:HRP | N/A | >95% | Liquid |
| Streptococcus pneumoniae | Mouse Monoclonal | >95% | Liquid |
| Tetanus Toxin | Mouse Monoclonal | >95% | Liquid |
| Tick-Borne Encephalitis Virus NS1 | Mouse Monoclonal | >95% | Liquid |
| Toxoplasma gondii SAG-1 | Mouse Monoclonal | >95% | Liquid |
| West Nile Virus Envelope Protein | Rabbit Polyclonal | >95% | Liquid |
| West Nile Virus NS1 | Mouse Monoclonal | >95% | Liquid |
| Yellow Fever Virus NS1 | Mouse Monoclonal | >95% | Liquid |
| Zika Virus NS1 | Mouse Monoclonal | >95% | Liquid |
| Zika Virus NS1 | Human Monoclonal | >95% | Liquid |
| Zika Virus VLP/Envelope Protein | Mouse Monoclonal | >95% | Liquid |

Blood Sera

The Native Antigen Company provides YFV and JEV human donor sera for use as diagnostic immunoassay controls and vaccine R&D.

| Sera | Presentation |
|---|--------------|
| Yellow Fever Virus Pre-Vaccination Bleed | Liquid |
| Yellow Fever Virus 2 Week (IgM) Vaccine Bleed | Liquid |
| Yellow Fever Virus 6 Week (IgG) Vaccine Bleed | Liquid |
| Yellow Fever Virus 6 Month (IgG) Vaccine Bleed | Liquid |
| Yellow Fever Virus 12 Month (IgG) Vaccine Bleed | Liquid |
| Yellow Fever Virus Vaccination Time Course Panel | Liquid |
| Japanese Encephalitis Virus Pre-Vaccination Bleed | Liquid |
| Japanese Encephalitis Virus 3 Week (IgM) Bleed | Liquid |
| Japanese Encephalitis Virus 6 Month (IgM) Bleed | Liquid |

Metabolic Labelling Kits

The Native Antigen Company provides Legionella-specific and Gram-negative-specific click chemistry labelling kits for the visualisation of bacteria.

| Kit | Volume |
|----------|--------|
| LegioTag | 100µl |
| BacTag | 100µl |

Blocking Buffers

The Native Antigen Company provides blocking buffers for Western Blot and ELISA.

| Buffer | Presentation |
|---|--------------|
| HiGlo Fluorescent Western Blocking Buffer | Liquid |
| PanBlock ELISA Blocking Buffer | Liquid |

Conjugation Kits

The Native Antigen Company provides a range of conjugation kits that utilize a novel chemistry to generate highly reproducible conjugates.

| Kit | Volume |
|--------------------------|--------|
| HRP-IgG Conjugation Kit | 1-40µl |
| Biotin Labelling Kit | 1-40µl |
| AP-IgG Conjugation Kit | 1-40µl |
| FITC-IgG Conjugation Kit | 1-40µl |

Contract and Custom Services

Our team has decades of experience in the field of native antigen and recombinant protein contract research, process development and production. NAC can undertake custom projects to manufacture proteins and antigens, prepare antibodies and develop immunoassays to suit your R&D needs. Our development laboratories are fully staffed by a team of PhD molecular biologists and development scientists who are able to execute projects as short as a few days, through to long-term programmes of a year or more. Our core expertise is in:

Protein Expression

We have developed a proprietary mammalian cell protein production system, based on suspension-adapted HEK 293 cells. With a batch capacity of up to 80L, we are able to perform custom expression projects to produce recombinant proteins with human folding and glycosylation. This system is ideal for complex folded and glycosylated proteins, viral proteins and cancer antigens.

Protein Purification

Our purification suite includes state-of-the-art equipment, and access to a range of chromatographic techniques, including affinity chromatography, size-exclusion chromatography, ion-exchange chromatography and hydrophobic interaction chromatography.

Antibody Generation

To complement our protein expression and immunoassay services, we also offer antibody generation packages. We can prepare monoclonal or polyclonal antibodies for your projects, using the same systems used for our own catalogue reagents. Should you need to conjugate your antibodies, chimerise them or even undertake sub-class switching, we can help.

ELISA Development

We can support you through the development of your ELISA assay from any stage. If you already have an antigen and antibodies available we will be pleased to use these to identify the best matched pairs, and to determine their performance in ELISA.

The
NativeAntigen
COMPANY

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The Native Antigen Company specialises in the development and manufacture of both native and recombinant antigens, antibodies and immunoassays for viruses and bacteria. Our antigens are used by leading pharmaceutical companies and IVD manufacturers in cutting-edge vaccine research and serology where proper folding and glycosylation are vital. As well as offering antigens from a rapidly expanding portfolio, we are increasing our range of highly specific antibodies and ELISA immunoassays. Our expertise is also available to customers on a contract basis for those needing custom protein manufacture in our proprietary mammalian cell protein expression system, together with antibody and immunoassay development.