

Antibody Datasheet

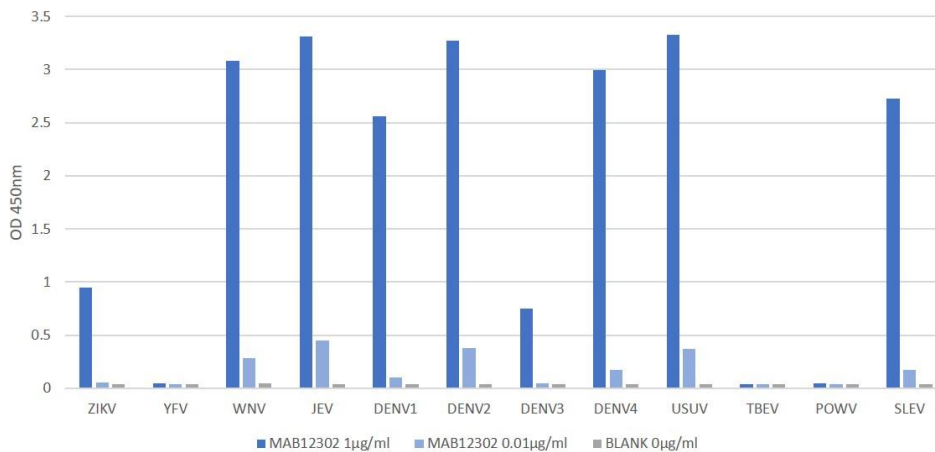
Product Name:	Mouse anti-Dengue virus NS1 antibody
Clone number:	EA11-C9-A8-D5
Isotype:	Mouse IgG
Product code:	MAB12302-100 MAB12302-500
Batch Number:	M-NAC-9A
Immunogen:	Full length recombinant NS1 proteins of Dengue virus (pool of serotypes 1, 2, 3 and 4) produced in HEK293 cells (available from the Native Antigen Company, product codes DENV1-NS1 , DENV2-NS1 , DENV3-NS1 and DENV4-NS1)
Amount:	100µg 500µg
Concentration:	1.0 mg/ml
Buffer:	Phosphate Buffered Saline pH7.4
Preservative:	None present. 0.2µm filtered.
Fusion partners:	Spleen cells from immunised Balb/c mice were fused with cells from the SP2/0-Ag14 myeloma cell line.
Purification:	Antibody was purified from hybridoma cell culture supernatant by affinity chromatography on Protein G
Specificity:	This antibody recognises the NS1 protein of Dengue virus, detecting NS1 from Serotypes 1, 2, 3 and 4 by western blot and ELISA. It also demonstrates cross-reactivity with NS1 proteins from other flaviviruses, including Zika virus (see data below). Cross-reactivity profiles may differ, depending on conditions are used.



Applications: Direct ELISA (NS1 antigen bound to plate), Western blot. Not suitable for use as a capture antibody.

Storage: Store at +4°C for up to one week, or at -20°C for longer periods
For long term storage at +4°C the addition of 0.09% w/v sodium azide is recommended.
The antibody is shipped at ambient temperature.
Avoid repeated freeze/thaw cycles.

Direct ELISA:

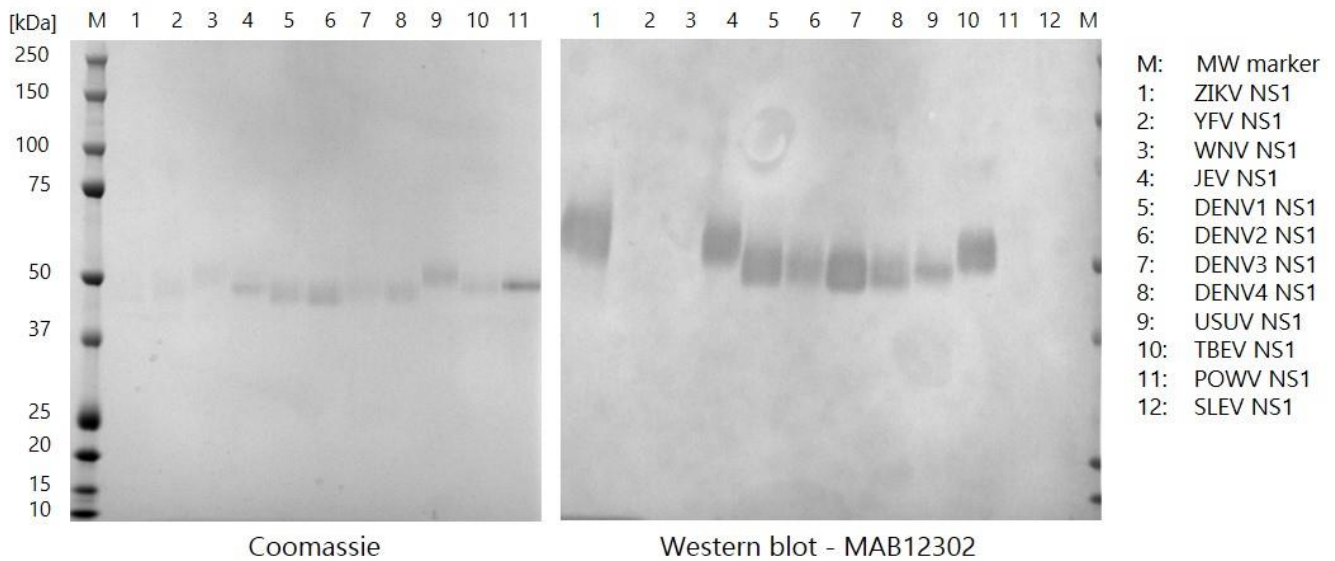


Protocol:

- **Plate coating:** Antigens coated at 0.5µg/ml.
- **Detection antibody:** Antibodies added at 1.0µg/ml.
- **Secondary antibody:** Goat anti-mouse IgG-HRP (Biorad, Cat: 103005) diluted 1:2500.
- **Detection:** SureBlue TMB substrate (KPL/Seracare).

Western blot:

SDS-PAGE and Western blot: 100ng of flavivirus NS1 antigen was separated by SDS-PAGE, in reducing conditions. Proteins were transferred using Transblot for 7 minutes at 25V. 5% dry milk in PBS-T was used as blocking buffer and dilution buffer for antibodies. Primary antibody was diluted 1:1000, and goat anti-mouse-IgG-HRP secondary antibody (Biorad 103005) was used at 1:1000. All steps were carried out for 1h at room temperature with gentle rocking. KPL Membrane TMB was used for detection. Development time ~30 seconds.



MAB12302 recognises NS1 antigen for all four Dengue virus serotypes (DENV1-4), Zika virus (ZIKV), Japanese encephalitis virus (JEV), Usutu virus (USUV) and Tick-borne encephalitis virus (TBEV).