

Antibody Datasheet

Product Name:	Mouse anti-Dengue virus serotype 1 NS1
Antibody:	This humanised IgM anti Dengue virus serotype 1 NS1 monoclonal antibody has been prepared by chimerization from the mouse monoclonal antibody clone OB4 (MAB12132). The original variable domains of this antibody have been retained, whilst the constant regions have been replaced with human IgM. The antibody is then expressed in HEK293 cells
Clone number:	OB4.C11.D10.B8
Isotype:	Human IgM
Product code:	MAB12262-100
Batch Number:	18120308
Immunogen:	Recombinant Dengue virus NS1, a mixture of serotypes 1-4, from the Native Antigen Company
Amount:	100ug
Concentration:	1.0mg/ml
Buffer:	Phosphate Buffered Saline pH7.4
Preservative:	None present
Purification:	Antibody was purified by lectin affinity chromatography from HEK293 cell culture supernatant
Specificity:	This antibody is specific for the NS1 protein of Dengue virus serotype 1, and does not cross-react with NS1 from other Dengue virus serotypes strains. It also demonstrates negligible cross-reactivity with NS1 protein from Zika virus or other flaviviruses.

No cross-reactivity is seen with Chikungunya virus E1, E2 or C proteins.

Antigen background: The NS1 protein is a major non-structural protein expressed by the Dengue Virus. The NS1 monomer is a glycosylated protein of approximately 45kD, which associates with lipids and forms a homodimer inside infected cells. It is necessary for viral replication, and is also secreted into the extracellular space as a hexameric lipoprotein particle, which is involved in immune evasion and pathogenesis by interacting with components from both the innate and adaptive immune systems, as well as other host factors. NS1 is one of the major antigenic markers for viral infection with Dengue.

With more than one-third of the world's population living in areas at risk of transmission, dengue infection is a leading cause of illness and death in the tropics and subtropics (*ref WHO for Guidelines for Diagnosis, Treatment, Prevention & Control, 2009*) As many as 100 million people are infected yearly. Dengue is caused by any one of four related viruses transmitted by mosquitoes. There are no vaccines available to prevent infection with dengue virus.

Applications: Direct ELISA (NS1 antigen bound to plate)
Western Blot (non-reducing conditions)
Not recommended for immunofluorescence applications

Results: In direct ELISA assay this antibody may be used at a dilution of 1/1,000 – 1/10,000

Recommended secondary antibody: Goat anti-human IgM:HRP Product code: PAB21461HRP-1000

Storage: Store at +4⁰C for up to three months, or at -20⁰C for longer periods
The antibody is shipped at ambient temperature.
Avoid repeated freeze/thaw cycles.