

Antibody Datasheet

Product Name:	Mouse anti-Dengue virus NS1
Clone number:	DA034
Isotype:	Mouse IgG1
Product code:	AbDENVNS1-DA034-100
Batch Number:	17013016
Immunogen:	Dengue virus cell lysate
Amount:	100ug
Concentration:	1mg/ml
Buffer:	Phosphate Buffered Saline pH7.4
Preservative:	0.09% w/v sodium azide.
Purification:	Antibody was purified by affinity chromatography on Protein A
Specificity:	<p>This antibody is specific for the NS1 protein of Dengue virus, detecting NS1 from all four Dengue virus serotypes strains. It demonstrates negligible cross-reactivity with NS1 protein from Zika virus. A small amount of cross-reactivity has been observed with the NS1 protein from Japanese Encephalitis Virus in a direct ELISA (see results below).</p> <p>No cross-reactivity is seen with Chikungunya virus E1, E2 or C proteins.</p>
Applications:	Direct ELISA (NS1 antigen bound to plate) Immunofluorescence for serotype 1 and serotype 3 (see Images)

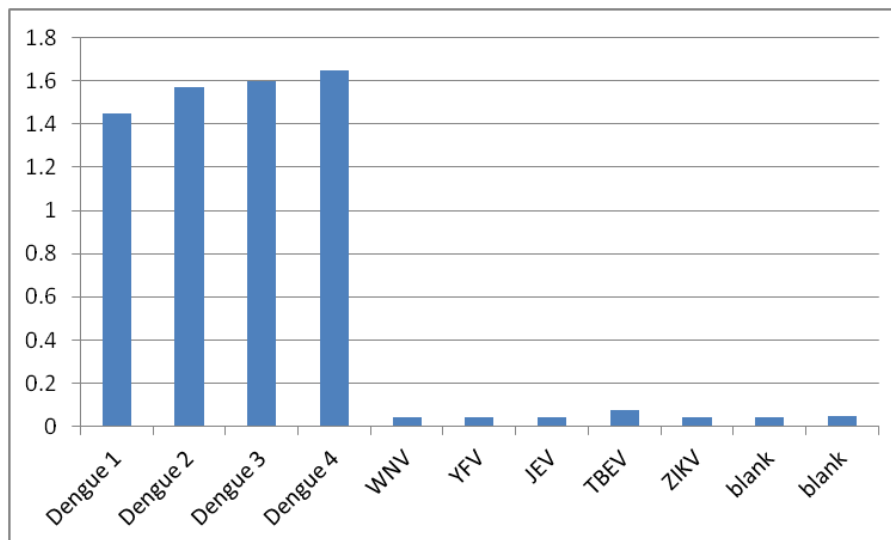
Antigen background: The NS1 protein is a major non-structural protein expressed by the Dengue Virus. The NS1 monomer is a glycosylated protein of approximately 45kD, which associates with lipids and forms a homodimer inside infected cells. It is necessary for viral replication, and is also secreted into 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.

Results: ELISA assay was performed using the method below, with antigens at 0.5ug/ml and antibody at 1ug/ml.

ELISA plates coated on bench overnight in 0.1M Carbonate pH 9.6, 100ul/well, washed once in wash buffer 300ul/well (TBS + 0.1% tween 20) and blocked 2 hours in 1% BSA in D-PBS 300ul/well. Antibodies diluted to working strength in diluent (DPBS + 1% BSA + 0.05% Tween 20 + 0.2% Proclin 950). Added at 100ul/well and incubated 2 hours shaken at ambient temperature. Washed 3 x 300ul/well.

Goat anti Mouse IgG-HRP (Biorad103005) diluted 1 in 2500 in diluent, added at 100ul/well and incubated with shaking 1 hour at ambient. Plate washed 6X300ul/well. TMB (KPL Sureblue 5120-0077) added at 100ul/well. Reaction for screening assay stopped by addition of 1M HCl 100ul/well.



Storage: Store at +4°C for up to three months, or at -20°C for longer periods. The antibody is shipped at ambient temperature. Avoid repeated freeze/thaw cycles.