

Antibody Datasheet

Product Name:	Mouse anti-Dengue virus serotype 4 Membrane protein (NE5)
Clone number:	NE5.BF9.D12
Isotype:	Mouse IgG1 kappa
Product code:	MAB12180-100
Batch Number:	18060816
Immunogen:	Recombinant Dengue virus-like particles, a mixture of serotypes 1-4, from the Native Antigen Company
Amount:	100ug
Concentration:	1.8mg/ml
Buffer:	Phosphate Buffered Saline pH7.4
Preservative:	None present
Purification:	Antibody was purified by affinity chromatography on Protein G
Specificity:	This antibody is specific for the Membrane protein of Dengue virus serotype 4, and does not cross-react with M protein from other Dengue virus serotypes.
Applications:	Direct ELISA (VLP antigen bound to plate) Western blot (non-reducing conditions)

Antigen background: The Envelope protein is a major structural protein expressed by the Dengue Virus. Envelope protein is a glycosylated protein of approximately 45-50kD, and which forms part of the virus capsid along with membrane protein (M). M protein is a small proteolytic fragment of the precursor prM protein and is produced during maturation of the viral particles in the secretory pathway. Dengue virus surface is composed of 180 copies the E and (pr/M) M proteins. Envelope protein is an important target for the human immune response, and many neutralising antibodies have been shown to recognise the Envelope protein.

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.

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.

