

DESCRIPTION

Species Reactivity	Viral
Specificity	Detects viral Dengue Virus 1 NS1 protein in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 973602
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell line HEK293-derived viral Dengue Virus 1 NS1 protein Asp776-Ala1127 Accession # P17763
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

ELISA Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Dengue virus type 1 non-structural protein 1 (DENV1 NS1) is an approximately 50 kDa viral glycoprotein (1). Dengue viruses are mosquito-borne flaviviruses that exist in nature as four distinct serotypes (DENV1-4) (2). Dengue virus NS1 can be found associated with cell membranes, within cells and at the cell surface, or as secreted extracellular species. The secreted form of NS1 is known to be hexameric (1). Within cells, NS1 plays a significant role in virus replication and has been shown to co-localize with dsRNA and other components of viral replication complexes in viral-induced vesicle packets (1,3). Cell surface-associated and secreted NS1 are profoundly immunogenic, and both the protein itself and the antibodies it elicits have been shown to contribute to either protection or pathogenesis and innate immune evasion (1, 3). Mature DENV1 NS1 contains 352 amino acids (aa) and consists of 2 conserved N-glycosylation sites and 12 invariant cysteine residues that form six intramolecular disulfide bonds (3). Mature DENV1 NS1 shares 73%, 80%, and 69% aa sequence identity with DENV2, DENV3, and DENV4 NS1, respectively.

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