

DESCRIPTION

Species Reactivity	Viral
Specificity	Detects recombinant Dengue Virus 4 NS1 in direct and capture ELISAs and Western blots. In direct ELISAs and Western Blots, no cross-reactivity with recombinant Dengue Virus 1, 2 and 3 NS1 proteins was observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 971314
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell line HEK293-derived recombinant Dengue Virus 4 NS1 protein Asp1-Ala352 Accession # NP_740318
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.

Western Blot 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 (DENV), the cause of Dengue fever, is a single positive-stranded RNA virus of the family Flaviviridae, genus Flavivirus. 5 closely related but antigenically distinct serotypes of the virus have been found: DENV-1, DENV-2, DENV-3, DENV-4 and DENV-5. DENV has a genome of about 11,000 bases, encoding a single large polyprotein that is subsequently cleaved into several structural and non-structural peptides. The polyprotein is divided into three structural proteins, C, prM, E, seven non-structural proteins, NS1, NS2a, NS2b, NS3, NS4a, NS4b, NS5, and short non-coding regions on both the 5' and 3' ends. DENV nonstructural protein-1 (NS1) is a secreted glycoprotein that is absent from viral particles but accumulates in the supernatant and on the plasma membrane of cells during infection.

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