

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Viral                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects recombinant Dengue Virus 2 NS1 protein and recombinant Dengue Virus 4 NS1 protein in Western blot and Direct Elisa. Detects recombinant Dengue Virus 1 and 3 NS1 proteins in Direct Elisa.                                                                          |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 969803                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Human embryonic kidney cell line HEK293-derived recombinant Dengue Virus 2 NS1 protein<br>Asp1-Ala352<br>Accession # NP_739584                                                                                                                                              |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

#### PRODUCT SPECIFIC NOTICES

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