

Viral Dengue Virus 2/4 NS1 Antibody

Monoclonal Mouse IgG₁ Clone # 969803

Catalog Number: MAB9439

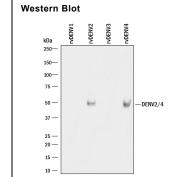
DESCRIPTION		
Species Reactivity	Viral	
Specificity Detects recombinant Dengue Virus 2 NS1 protein and recombinant Dengue Virus 4 NS1 protein in Western blot a recombinant Dengue Virus 1 and 3 NS1 proteins in Direct Elisa.		
Source	Monoclonal Mouse IgG ₁ Clone # 969803	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Human embryonic kidney cell line HEK293-derived recombinant Dengue Virus 2 NS1 protein Asp1-Ala352 Accession # NP_739584	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

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.

	Recommended Concentration	Sample
Western Blot	5 μg/mL	See Below

DATA



Detection of Dengue Virus 2/4 NS1 by Western Blot. Western blot shows recombinant Dengue Virus (DENV) 1, recombinant DENV2, recombinant DENV3, and recombinant DENV4. PVDF membrane was probed with 5 µg/mL of Mouse AntiDengue Virus 2/4 NS1 Monoclonal Antibody (Catalog # MAB9439) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Dengue Virus 2/4 NS1 at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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