

Viral Dengue Virus NS1 Antibody

Monoclonal Mouse IgG₁ Clone # 969973 Catalog Number: MAB94401

DESCRIPTION			
Species Reactivity	Viral		
Specificity	Detects Dengue Virus 1/2/3/4 NS1 in Western blots. In sandwich immunoassays, Dengue Virus 1/3 NS1 is detected.		
Source	Monoclonal Mouse IgG ₁ Clone # 969973		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Human embryonic kidney cell line HEK293-derived recombinant Dengue Virus 3 NS1 protein Asp1-Ala352 Accession # YP_001531169		
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.		

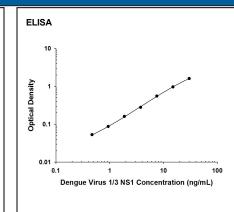
APPLICATIONS

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	2 μg/mL	See Below
ELISA	This antibody functions as an ELISA capture antibody when paired with Mouse Anti-Dengue Virus 1/3 NS1 Monoclonal Antibody (Catalog # MAB94402).	

This product is intended for assay development on various assay platforms requiring antibody pairs.

Detection of Dengue Virus NS1 by Western Blot. Western blot shows recombinant Dengue Virus (DENV) 1, recombinant DENV2, recombinant DENV3, and recombinant DENV4. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Viral Dengue Virus NS1 Monoclonal Antibody (Catalog # MAB94401) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Dengue Virus NS1 at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.



Dengue Virus 1/3 NS1 ELISA Standard Curve. Recombinant Dengue Virus 1 NS1 or Recombinant Dengue Virus 3 NS1 protein was serially diluted 2-fold and captured by Mouse Anti-Dengue Virus NS1 Monoclonal Antibody (Catalog # MAB94401) coated on a Clear Polystyrene Microplate (Catalog # DY990). Mouse Anti-Dengue Virus 1/3 NS1 Monoclonal Antibody (Catalog # MAB94402) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

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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