

DESCRIPTION

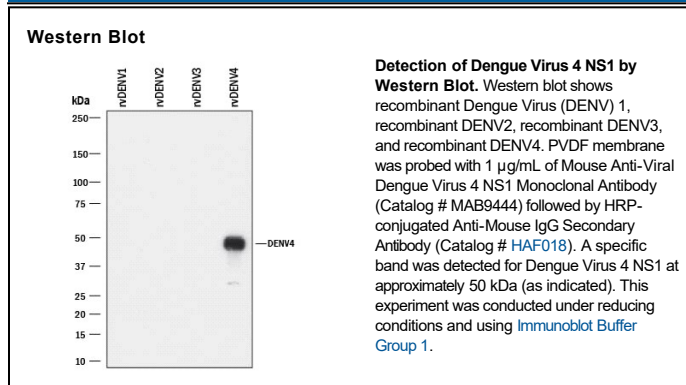
Species Reactivity	Viral
Specificity	Detects recombinant Dengue Virus 4 NS1 in direct and capture ELISAs and Western blots. In direct ELISAs and Western Blots, no cross-reactivity with recombinant Dengue Virus 1, 2 and 3 NS1 proteins was observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 971314
Purification	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
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	1 µg/mL	See Below

DATA



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. <ul style="list-style-type: none"> ● 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.