

DESCRIPTION

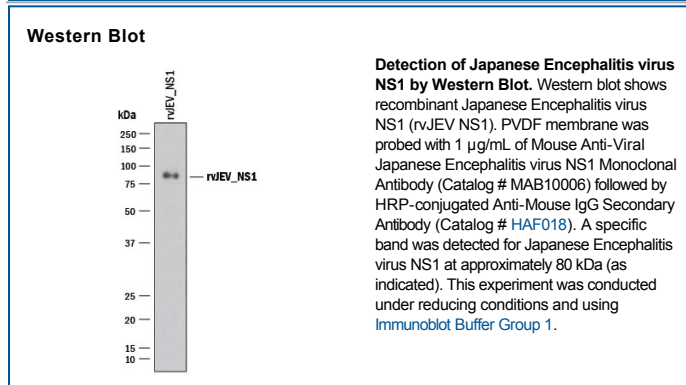
Species Reactivity	Viral
Specificity	Detects Japanese Encephalitis virus NS1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 995010
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell, HEK293-derived Japanese Encephalitis virus NS1 Thr796-Ala1146 Accession # P32886
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

Japanese encephalitis virus (JEV) non-structural protein 1 (NS1) is produced by the Japanese encephalitis virus (JEV), a mosquito-borne flavivirus that is the leading cause of virus-induced encephalitis globally (1). Flavivirus NS1 is a multifunctional virulence factor. The glycosylated NS1 exists as a membrane-associated dimer after translocation into the endoplasmic reticulum lumen, where it is essential for viral genome replication (2). The secreted hexamer NS1 is involved in immune evasion and pathogenesis; it is identified as a potential diagnostic marker for early detection of the virus infections (2). Mature viral JEV NS1 contains 352 amino acids and shares high structural similarity to other flavivirus NS1 proteins, such as DENV and ZIKV.

References:

1. Nain, M. *et al.* (2016) *Rev. Med. Virol.* **26**:129.
2. Rastogi, M. *et al.* (2016) *Virol. J.* **13**:131.