

DESCRIPTION

Species Reactivity	Viral
Specificity	Detects Yellow Fever Virus NS1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 994706
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell HEK293-derived Yellow Fever Virus NS1 Gln780-His1134 Accession # P03314
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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

Yellow fever virus (YFV) non-structural protein 1 (NS1) is produced by yellow fever virus (YFV), a mosquito-borne flavivirus that is responsible for numerous epidemics of yellow fever disease with high fatality rates (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 YFV NS1 contains 352 amino acids (afa) and shares high structural similarity to other flavivirus NS1 proteins, such as DENV and ZIKV.

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