Viral wnvNS3 Protease Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 991926

Catalog Number: FAB29073R

100 µg

DESCRIPTION

Species Reactivity	Viral
Specificity	Detects viral wnvNS3 Protease in direct ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 991926
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived Viral wnvNS3 Protease sequences: rwnvNS2b 1-48, rwnvNS3 1-184
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.*

ELISA	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

Infection of mosquito-borne West Nile Virus can cause severe neurological disease and can be epidemic. Two non-structural proteins, NS3 and NS2b, play an essential role in viral replication and are therefore a potential target for treatment and prevention of West Nile Virus disease. NS3 consists of a trypsin-like serine protease with a catalytic triad (His51, Asp75, Ser135) and a putative helicase. Requiring NS2b as the cofactor, NS3 protease processes viral polyprotein precursor (1, 2). The purified recombinant protein used as an immunogen consists of three forms: the full-length fusion protein, the N-terminal NS2b, and the C-terminal NS3 with a G_4SG_4 linker. NS3 protease has a relatively narrow substrate specificity that prefers Arg in P1 and Lys in P2.

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Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475