

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
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| <b>Species Reactivity</b> | Viral                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects viral wnvNS3 Protease in direct ELISAs and Western blots. Recognizes an epitope in the NS3 domain.                                                                                                                                                                  |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 345713                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant West Nile Virus NS3 Protease, expressed as a fusion protein with co-factor NS2L<br>Gly1506-Leu1689<br>Accession # ABD85079                                                                                                              |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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 co-factor, NS3 protease processes viral polyprotein precursor (1, 2). The purified recombinant protein consists of three forms: the full-length fusion protein, the N-terminal NS2b, and the C-terminal NS3 with the G<sub>4</sub>SG<sub>4</sub> linker. NS3 protease has a relatively narrow substrate specificity that prefers Arg in P1 and Lys in P2.

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