

West Nile Virus Antibody

Purified No Carrier Protein

Recombinant Monoclonal Antibody

Product Information

Product No.: LT566

Clone: WNV-96

Isotype: Human IgG1

Storage: Sterile 2 to 8°C

Product Description

Specificity:

WNV-96 activity is directed against the β -Ladder, spaghetti loop of NS1.

Background:

West Nile Virus (WNV) is a mosquito-borne, enveloped, positive-stranded RNA flavivirus¹. Flavivirus nonstructural protein NS1 has been proposed as an antibody target to avoid antibody-dependent enhancement². NS1 is a 46-55 kDa glycoprotein that is expressed as a dimer on the cell surface and as a soluble hexamer in the extracellular space and in circulation during infection. WNV NS1 dimer consists of a β -roll, wing, and β -ladder.

Known Reactivity Species:

West Nile, Virus

Expression Host:

HEK-293 Cells

Format:

Purified No Carrier Protein

Immunogen:

Sequenced from human survivors of West Nile.

Formulation

This recombinant monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity

≥90% monomer by analytical SEC and SDS-Page

Storage and Stability

This antibody may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C.

Avoid Repeated Freeze Thaw Cycles.

Product Preparation

Recombinant antibodies are manufactured in an animal free facility using only in vitro protein free cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Other Applications Reported in Literature:

ELISA

FC

Country of Origin

USA

References

- 1) Goo L, Debbink K, Kose N, et al. Nat Microbiol. 4(1):71-77. 2019.
- 2) Wessel AW, Doyle MP, Engdahl TB, et al. mBio. 12(5):e0244021. 2021.

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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