Leinco Technologies, Inc.
excellence in early discovery research™

Anti-Sin Nombre Virus (Hantavirus)

Purified No Carrier Protein

Recombinant Monoclonal Antibody

Product Information

Product No.:	LT552
Clone:	SNV-53
Isotype:	Human IgG1

Product Description

Specificity:
SNV-53 specificity is directed against the surface glycoprotein spike.

Background:
Hantavirus is an enveloped, negative-sensed, single-stranded RNA virus in the bunyavirus family[1]. "New World" hantaviruses (NWH) are found in the Americas and may cause hantavirus pulmonary syndrome (HPS)[2]. "Old World" hantaviruses (OWH) are found mostly in Europe and Asia and may cause hemorrhagic fever with renal syndrome. Each hantavirus serotype has a specific rodent host species and infection is spread by aerosolized urine, feces, saliva, or by rodent bites. Sin Nombre Virus (SNV), a NWH first isolated from rodents in the Southwestern United States, infects with a mortality rate of 50%[1]. The probability of survival for Syrian hamsters infected with SNV significantly increases when treated postinfection with the monoclonal antibody (mAb) SNV-53[3].

Known Reactivity Species:
Hantavirus, Sin Nombre, Virus

Expression Host:
HEK-293 Cells

Format:
Purified No Carrier Protein

Immunogen:
Sequenced from human survivors of Sin Nombre.

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.

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

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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
N

Country of Origin
USA

References

1. Centers for Disease Control and Prevention, National Center for Emerging and Zoonotic Infectious Diseases (NCEZID), Division of High-Consequence Pathogens and Pathology (DHCPP), Link Text
2. Centers for Disease Control and Prevention, National Center for Emerging and Zoonotic Infectious Diseases (NCEZID), Division of High-Consequence Pathogens and Pathology (DHCPP), Link Text
3. Engdahl TB, Kuzmina NA, Ronk AJ, et al. Cell Rep. 35(5):109086. 2021.

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