

12-8268: Anti-Sin Nombre Virus, Glycoprotein (Hantavirus) (Clone SNV-57)-Purified No Carrier Protein

Clonality : Monoclonal
Clone Name : SNV-57
Application : ELISA
Isotype : Human IgG1

Description

Specificity: The SNV-57 monoclonal antibody is specific for the glycoprotein complex (Gn/Gc) of the Sin Nombre virus (SNV). It is also capable of binding and neutralizing many OWH isolates.

Antigen Distribution: Hantavirus infects and replicates in pulmonary and cardiac endothelium in both humans and deer mice, the natural host.

Background: Hantavirus is an enveloped, negative-sensed, single-stranded RNA virus in the bunyavirus family. ?New World? hantaviruses (NWH) are found in the Americas and may cause hantavirus pulmonary syndrome (HPS). ?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 is spread by aerosolized urine, feces, saliva, or 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. SNV-57 exhibits high specificity for the glycoprotein complex (Gn/Gc) of the virus. The primary function of SNV-57 is to neutralize the virus by binding to the Gn glycoprotein, inhibiting the conformational changes necessary for the virus to fuse with and enter host cells. It is also capable of binding and neutralizing many OWH isolates including PUUV, DOBV, HTNV, and SEOV. This broad neutralizing activity makes SNV-57 a promising candidate for therapeutic applications, diagnostics, and research in understanding hantavirus infections².

Product Info

Amount : 250µg / 1 mg
Purification : Purity: >=90% monomer by analytical SEC and SDS-Page
Preparation:
Concentration: >=1.0 mg/ml
Content : 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.
Storage condition : 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.

Application Note

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