

## Anti-Glycoprotein 1 of Hantaan virus (HTNV). IgG fraction monoclonal antibody (cl 1F5/G2)

Catalog Number: HNM-6052AZ1-5 (100µg) Lot # R-90137

**Description:** Mouse monoclonal antibody IgG fraction (clone 1F5/G2) obtained by immunizing mice with purified recombinant HTNV Glycoprotein 1 (G1).. The IgG fraction was purified using Protein G-Sepharose

**Biological Activity:** This antibody can be used in ELISA (1:1,000 dilution) and Western blot (1:8,000 dilution) analysis. It recognizes specifically the G1 glycoprotein of HTNV. Hantaviruses (family Bunyaviridae) are enveloped viruses that contain a tripartite, negative-stranded RNA genome encoding an RNA-dependent RNA polymerase (L), two integral membrane glycoproteins (G1 and G2), and a nucleocapsid (N) protein. The G1 and G2 glycoproteins form heterodimers and they attach the virion to a cell receptor and to promote fusion membrane after endocytosis of the virion. G1 can dysregulate normal immune and endothelial cell responses and contribute to virus pathogenesis. HTNV is a causative agent of severe hemorrhagic fever mainly in China and it is transmitted by the rodent *Apodemus agrarius*

**Isotype:** IgG1

**Stability:** Stable at least one year at -20°C. Avoid repeated freezing and thawing

**Storage:** -20°C

**Formulation:** Solution at 1.0mg/mL in PBS. Some of the liquid in the vial could have evaporated with changes in the final volume. However, the mass of the protein is still inside the vial

**References:** Yan, L. et al. (2007) *Emerg. Infect. Dis.* 13, 1301-1306  
Lober, C. et al. (2001) *Virology* 289, 224-229.  
Antic, D. et al. (1992) *Virology* 189, 324-328.  
Yoo, D. & Kang, C.Y. (1987) *Nucleic Acids Res.* 15, 6299-6300

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