Monoclonal Anti-Hantaan virus pre-Gc protein Antibody, Human IgG1 (6D5) (MALS verified)

Catalog # PRN-MY322

Source

Monoclonal Anti-Hantaan virus pre-Gc protein Antibody, Human IgG1 (6D5) is a chimeric monoclonal antibody recombinantly expressed from HEK293, which combines the variable region of a mouse monoclonal antibody with Human constant domain.

Clone

6D5

Species

Mouse

Isotype

Human IgG1 | Human Kappa

Conjugate

Unconjugated

Antibody Type

Recombinant Monoclonal

Reactivity

Hantaan virus (strain 76-118) (Korean hemorrhagic fever virus)

Immunogen

Recombinant Hantaan virus (strain 76-118) (Korean hemorrhagic fever virus) pre-Gc protein is expressed from human HEK293 cells

Specificity

Specifically recognizes Hantaan virus (strain 76-118) (Korean hemorrhagic fever virus) pre-Gc protein Protein.

Application

Application	Recommended Usage
ELISA	0.05-25 ng/mL

Purity

95% as determined by SDS-PAGE.

90% as determined by SEC-MALS.

Purification

Protein A purified / Protein G purified

Formulation

Lyophilized from a 0.22 μm-filtered solution in PBS (pH 7.4), with trehalose as protectant.

Please contact us for customized product forms or formulations.

Reconstitution

Please refer to the Certificate of Analysis (CoA) for specific instructions.

For best performance, we strongly recommend following the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored in a lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

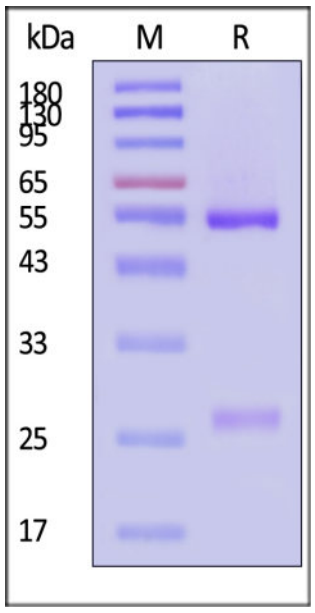
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

- QMS(ISO, GMP)

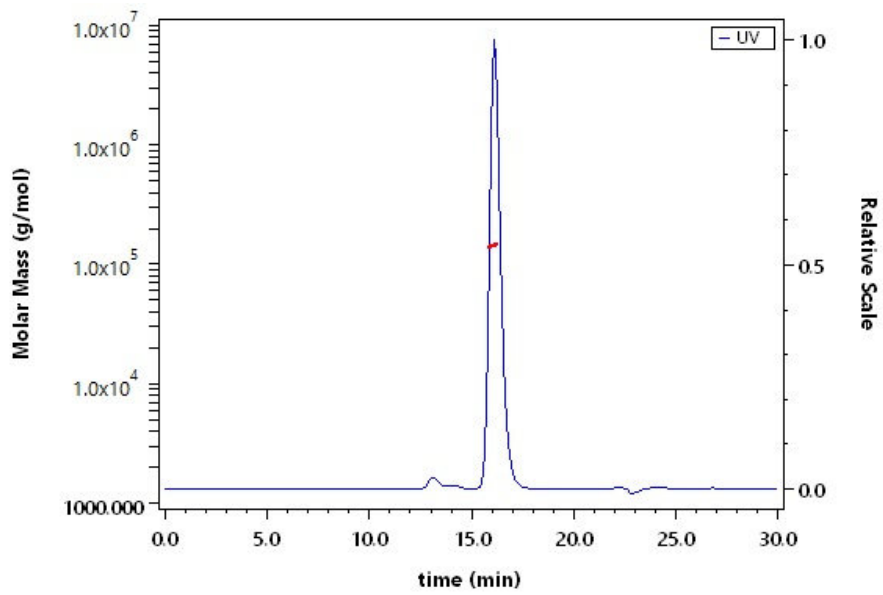
- Quality Advantages
- Quality Control Process

SDS-PAGE



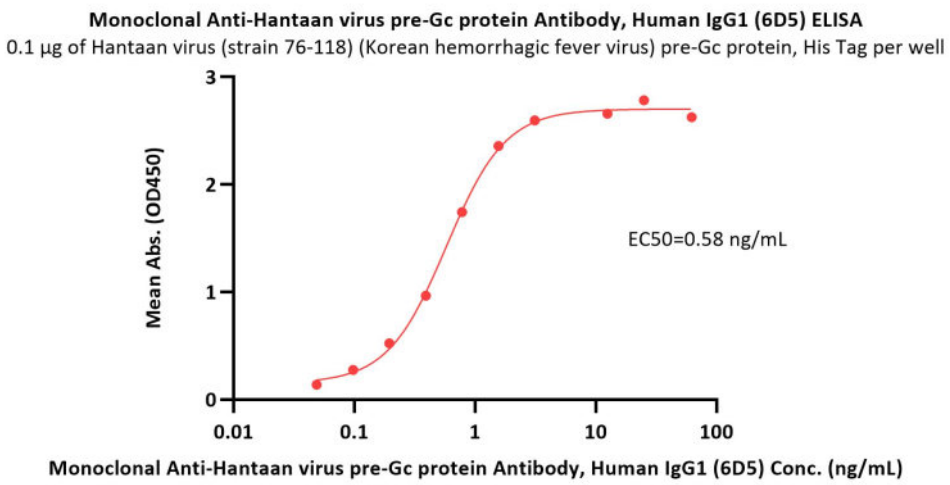
Monoclonal Anti-Hantaan virus pre-Gc protein Antibody, Human IgG1 (6D5) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Monoclonal Anti-Hantaan virus pre-Gc protein Antibody, Human IgG1 (6D5) (Cat. No. PRN-MY322) is more than 90% and the molecular weight of this protein is around 135-160 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Hantaan virus (strain 76-118) (Korean hemorrhagic fever virus) pre-Gc protein, His Tag (Cat. No. PRN-V52H4) at 1 μg/mL (100 μL/well) can bind Monoclonal Anti-Hantaan virus pre-Gc protein Antibody, Human IgG1 (6D5) (Cat. No. PRN-MY322) with a linear range of 0.05-2 ng/mL (QC tested).

Background

Hantaviruses (genus Orthohantavirus) are enveloped, negative-sense, single-stranded ribonucleic acid (RNA) viruses. The genomes of hantaviruses are composed of tri-segmented single-stranded, negative sense RNA, designated as small (S), medium (M) and large (L) segments. Each segment encodes nucleocapsid protein (NP), glycoprotein precursor (GPC) and RNA-dependent RNA polymerase (RdRp), respectively. GPC is posttranslationally cleaved into Gn and Gc. Glycoproteins Gn and Gc are transmembrane proteins and constitute an envelope with a lipid membrane derived from host cells. Gn and Gc are involved in receptor binding, membrane fusion and induction of protective immunity. The two glycoproteins are presumed to be the major elements involved in the induction of neutralizing antibodies during hantavirus infection.