

Anti-Envelope glycoprotein Gc [A5] Standard Size Ab00833-10.0

This full-length, reformatted human antibody was made using the variable domain sequences of the original Human scFv format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Lambda

Clone Number: A5

Alternative Name(s) of Target: E-protein; Envelopment polyprotein; Hantaan Virus

UniProt Accession Number of Target Protein:

Published Application(s): crystallization, SPR

Published Species Reactivity: Hantavirus

Immunogen: The A5 clone was originally identified as a scFv by selecting the Griffin phage display library against recombinant ectodomain of Gc (rGc, from Hantaan virus strain 76-118).

Specificity: This antibody binds to and stabilizes the otherwise disordered tip of the Hc protein. As an scFv, this antibody forms a 1:1 complex with rGC, covering a large surface area with around 60% of contacts being made by the light chain.

Application Notes: This antibody binds to the envelope glycoprotein Gc of Hantaan virus, a member of the Bunyaviridae family of enveloped viruses. It is the causative agent of Korean Hemorrhagic Fever, or Hantavirus hemorrhagic fever with renal syndrome, in humans. Despite a large interaction area, the Kd was reported in the micromolar range by SPR. Binding to rGc is reported to inhibit liposome binding.

Antibody First Published in: Guardado-Calvo et al. Mechanistic Insight into Bunyavirus-Induced Membrane Fusion from Structure-Function Analyses of the Hantavirus Envelope Glycoprotein Gc. PLoS Pathog. 2016 Oct 26;12(10) [PMID:27783711](#)

Note on publication: Describes the generation and characterisation of this antibody.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.