

Anti-Glycoprotein H [A13-d6.3] Bulk size M Ab00772-10.6-BS

This is a Fab fragment with a his-tag.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG2b format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human Fab fragment, His-Tagged, Kappa

Clone Number: A13-d6.3

Alternative Name(s) of Target: d6.3; gH; Envelope glycoprotein H

UniProt Accession Number of Target Protein: A0A142I9U7

Published Application(s): crystalize, immunostaining, neutralize

Published Species Reactivity: pseudorabies virus (PrV)

Immunogen: d6.3 was generated by immunizing mice with PrV.

Specificity: d6.3 Fab fragment binds to the core fragment of the PrV glycoprotein H (gH) ectodomain (aa 107-639) which is the membrane-proximal end of the protein in the ΔgL-Pass PrV variant of PrV. The antibody contacts residues 332-373 (peripheral helices α6 and α7 of domain III of gH contribute most of the residues that form the epitope recognized by d6.3). PrV is a porcine herpesvirus belonging to the alpha-Herpesvirinae subfamily and is known to cause Aujeszky's disease in pigs. gH is a type I membrane protein and can interact non-covalently with gL via the large gH ectodomain.

Application Notes: d6.3 neutralizes the ΔgL-Pass PrV variant of PrV and can stain ΔgL-Pass PrV variant but not the wild-type PrV by immunostaining. The epitope of d6.3 is not blocked by the formation of the gH/gL heterodimer. The d6.3Fab fragment (obtained through papain digestion) can be complexed with the core fragment of the PrV glycoprotein H (gH) ectodomain (aa 107-639) for structural studies by crystallography.

Antibody First Published in: Backovic et al. Structure of a core fragment of glycoprotein H from pseudorabies virus in complex with antibody. Proc Natl Acad Sci U S A. 2010 Dec 28;107(52):22635-40

[PMID:21149698](#)

Note on publication: Describes the determination of the crystal structure of PrV gH complexed with d6.3 and the mode of antibody binding. The solved structure is also used to compare PrV gH with that of Epstein-Barr virus (EBV).

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: See vial label

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