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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-GP1 [GD01] Standard Size Ab00771-1.1

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

Isotype and Format: Mouse IgG1, Kappa

Clone Number: GD01

Alternative Name(s) of Target: glycoprotein receptor-binding subunit 1; surface envelope glycoprotein; GPC; GD01-AG02; Junin virus

UniProt Accession Number of Target Protein: P26313

Published Application(s): crystallize, neutralize, ELISA

Published Species Reactivity: Junin virus (JUNV)

Immunogen: GD01 was generated by immunizing mice with inactivated JUNV.

Specificity: GD01 binds to GP1 (KD ~12.5 nM) of the JUNV mammarenavirus surface envelope glycoprotein GPC. Binding to GP1 mimics the contacts made by the viral cellular receptor (the CDR3 mimics the interaction that Y211 of TfR1 has with GP1). GD01 competes with QC03 for binding to GP1 which suggests similar modes of binding. Junín (JUNV) is a New World mammarenavirus which causes Argentine hemorrhagic fever (AHF). GPC is comprised of SSP, GP1 and GP2 polypeptides. GP1 is the most membrane-disal subunit and acts by binding to TfR1. GD01 does not neutralize the other New World hemorrhagic fever mammarenaviruses Machupo (MACV), Guanarito (GTOV) or Sabiá (SBAV) viruses,

Application Notes: GD01 is able to neutralize the active form of JUNV by disrupting the interaction between GP1 and TfR1. The GD01 Fab fragment was crysallized bound to GP1. This anitbody can also be used in ELISAs, for example competition assays which showed that IgGs from survivors of AHF did not compete with GD01 and so bind to different epitopes.

Antibody First Published in: Mahmutovic et al. Molecular Basis for Antibody-Mediated Neutralization of New World Hemorrhagic Fever Mammarenaviruses. Cell Host Microbe. 2015 Dec 9;18(6):705-13 [PMID:](#)

Note on publication: Describes the determination of the structure of GP1 complexed with GD01 Fab fragment and the mode of JUNV neutralization.

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.