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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Junin virus GP1 [CR1-10] Bulk Size Ab03674-23.0-BT

Isotype and Format: Rabbit IgG, Kappa

Clone Number: CR1-10

Alternative Name(s) of Target: JUNV GP1; GPC; Glycoprotein G1; Pre-glycoprotein polyprotein GP complex; Pre-GP-C; Argentinian mammarenavirus

UniProt Accession Number of Target Protein: P26313

Published Application(s): neutralization, ELISA

Published Species Reactivity: Junin mammarenavirus (JUNV)

Immunogen: The original antibody was isolated from the peripheral blood lymphocytes of a human patient who had been immunized with Candid#1 2 years prior to sampling. Candid#1 is a live attenuated JUNV vaccine.

Specificity: This antibody binds the GP1 subunit of their envelope glycoprotein of Junin virus (JUNV). This antibody does not bind the TfR1 receptor binding site in GP1. Junin virus also known as Argentinian mammarenavirus is an arenavirus in the Mammarenavirus genus which causes Argentine Haemorrhagic Fever (AHF). Mammarenaviruses sporadically cause zoonotic infections in humans, which may lead to life-threatening viral haemorrhagic fever (VHF) disease. VHFs caused by arenaviruses are acute diseases with considerable mortality rates. Symptoms are fever, malaise, headache, nausea, diarrhea, petechial hemorrhage of the soft tissues, lethargy, and irritability. Members of the Arenaviridae family are enveloped viruses with a bi-partite RNA genome coding for four viral proteins. The virus is spread through the aerosolization of host rodent excreta.

Application Notes: This antibody is capable of binding Junin virus GP1 and GP1 mutant by ELISA. The Fab version of this antibody binds JUNV GP1 with a binding affinity of $K_d=25\text{nM}$. This antibody shows mild neutralization of JUNV (PMID: 29760382).

Antibody First Published in: Clark et al. Vaccine-elicited receptor-binding site antibodies neutralize two New World hemorrhagic fever arenaviruses. Nat Commun. 2018; 9: 1884. [PMID:29760382](#)

Note on publication: This paper describes the generation of antibodies against hemorrhagic fever arenaviruses.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

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: 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.