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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Severe Fever and Thrombocytopenic Syndrome Virus [MAb4-5] Bulk Size Ab03836-21.0-BT

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

Isotype and Format: Mouse IgM, Kappa

Clone Number: MAb4-5

Alternative Name(s) of Target: SFTSV; SFTS; Glycoprotein N; SFTSV Gn; Envelopment polyprotein; Severe Fever and Thrombocytopenic Syndrome Virus; arthropod-borne phleboviruses

UniProt Accession Number of Target Protein: R4V2Q5

Published Application(s): Cristallography, neutralizing, SPR, WB

Published Species Reactivity: Severe Fever and Thrombocytopenic Syndrome Virus

Immunogen: The original antibody was isolated using whole SFTSV virions as bait from a phage-display antibody library derived from the peripheral blood mononuclear cells of a patient that recovered from SFTS disease.

Specificity: The antibody is specific for SFTSV. It binds to a linear epitope in the ectodomain of glycoprotein Gn. It does not cross react with RVFV.

Application Notes: The antibody showed neutralizing activity against SFTSV infection in Vero cells (Guo et al. 2013; PMID: 23863504). To verify neutralizing activity, full-length human IgG1 antibody was constructed. The recombinant antibodies were expressed by 293T mammalian cells and the concentration required to obtain 50% neutralization of 100 TCID50 SFTSV in vitro was 44.2 µg/mL. The interaction between Gn and the antibody was further demonstrated by surface plasmon resonance (SPR) assays with a dissociation constant (Kd) of 25.9 nM. The crystal structure of SFTSV Gn head domain in complex with the Fab fragment of the antibody was determined. The antibody could recognize the denatured SFTSV Gn head by WB (Wu et al., 2017; PMID: 28827346).

Antibody First Published in: Guo et al. Human Antibody Neutralizes Severe Fever with Thrombocytopenia Syndrome Virus, an Emerging Hemorrhagic Fever Virus Clin Vaccine Immunol. 2013 Sep; 20(9): 1426-1432. [PMID:23863504](#)

Note on publication: The original paper describes the generation and characterization of the antibody.

Product Form

Size: 500 µg Purified antibody in bulk size.

Purification:

Affinity Purified using a recombinant lectin column

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.