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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



Anti-Severe Fever and Thrombocytopenic Syndrome Virus [MAb4-5]
Standard Size, 100 µg, Ab03836-10.3

[View online](#)

Anti-Severe Fever and Thrombocytopenic Syndrome Virus [MAb4-5] Standard Size Ab03836-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, 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: 100 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.