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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-F protein [2E3] Ab03523-23.0-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original Human Fab format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Rabbit IgG, Lambda

Clone Number: 2E3

Alternative Name(s) of Target: fusion glycoprotein; Fusion glycoprotein F0

UniProt Accession Number of Target Protein: P03420

Published Application(s): neutralization, SPR, ELISA

Published Species Reactivity: RSV

Immunogen: A synthetic, fully human antibody library was used for panning against RSV prefusion and post fusion F proteins. The original antibody against RSV F protein was discovered following phage library panning and characterized.

Specificity: The original antibody is specific for prefusion F protein. The antibody binds the protein through a conformational epitope spanning across three distinct sections of the RSV F protein: residues 419–434, 443–448, and 459–467. F-protein plays a pivotal role in the pathogenesis of RSV by mediating the fusion between the viral and the host cell membrane. F protein exists in two distinct conformations: the metastable prefusion conformation and the stable post fusion conformation.

Application Notes: The specificity of the Fab and IgG1 format of the antibody was confirmed by ELISA analysis (EC50 value for IgG1 at 9.6 ng/mL). Surface plasmon resonance based studies demonstrated that the antibody bound exclusively to the prefusion conformation of the RSV F protein with an affinity $K_d = 13$ nM for monovalent Fab. The bivalent Fab exhibited neutralizing activities against both RSV A (Long) and B (Washington) strains with IC50 at 53.4 ng/mL and 515 ng/mL, respectively. The human IgG1 format showed an improved neutralizing activity against the RSV A strain (IC50 at 11.4 ng/mL) and comparable against the RSV B (Washington) strain (IC50 at 520 ng/mL).

Antibody First Published in: Chen et al. Discovery and Characterization of Phage Display-Derived Human Monoclonal Antibodies against RSV F Glycoprotein PLoS One. 2016; 11(6): e0156798.

[PMID:27258388](#)

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

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.