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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-pre-fusion viral F protein [DS7] Ab03556-21.0-BT

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

This chimeric mouse antibody was made using the variable domain sequences of the original Human IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgM, Lambda
Clone Number: DS7
Alternative Name(s) of Target: Fusion glycoprotein; F protein; Protein F; hMPV F protein; hMPV fusion glycoprotein; Human metapneumovirus
UniProt Accession Number of Target Protein: Q6WB98
Published Application(s): neutralization, ELISA, IF
Published Species Reactivity: Human metapneumovirus (hMPV)
Immunogen: The original antibody was isolated from the phage display library generated from the bone marrow tissue of 12 donors. The screening of the library was done against recombinant hMPV F protein.
Specificity: This antibody recognizes and binds the Human metapneumovirus F protein residues located in the DI and DII head domains. This antibody binds MPV F in its pre-fusion conformation and does not specifically bind to MPV F in its postfusion conformation. Human metapneumovirus (hMPV) is a member of the Paramyxoviridae family/Pneumovirinae subfamily and shares many common features with respiratory syncytial virus (RSV), another member of the same subfamily. hMPV causes respiratory tract illnesses that, similar to human RSV, occur predominantly during the winter months and have symptoms that range from mild to severe cough, bronchiolitis, and pneumonia.
Application Notes: The binding characterization of this antibody to hMPV F protein was done using ELISA. The binding of the antibody was also confirmed using immunofluorescent assays of LLC-MK2 cell culture monolayers were infected with hMPV. The fab version of this antibody neutralized the parent strain of hMPV with a 60% plaque reduction activity of 1.1 µg/ml and bound to hMPV F with an affinity of 9.8 ×10^(−10) M. This antibody was reported to reduce viral titers in the lungs of cotton rats when given therapeutically and modestly reduced titers in nasal tissues. There was a dose-response relationship between the dose of DS7 and viral titers. This antibody was capable of neutralizing strains from the A1 and B1 lineages in addition to the A2 lineage but failed to neutralize the B2 strain (PMID: 17522220).
Antibody First Published in: Williams et al. A recombinant human monoclonal antibody to human metapneumovirus fusion protein that neutralizes virus in vitro and is effective therapeutically in vivo. J Virol. 2007 Aug;81(15):8315-24.

PMID:17522220

Note on publication: Describes the generation of a recombinant human antibody against human metapneumovirus fusion protein with in vitro and in vivo neutralization capabilities.

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 4ºC for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20ºC.
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.