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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-F protein [mAb 338] Ab03554-10.0-BT

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

Isotype and Format: Human IgG1, Kappa

Clone Number: mAb 338

Alternative Name(s) of Target: Fusion glycoprotein; Protein F; hMPV F protein; hMPV fusion glycoprotein; Human metapneumovirus; 168-A5-338-284

UniProt Accession Number of Target Protein: Q6WB98

Published Application(s): neutralization, ELISA

Published Species Reactivity: Human metapneumovirus (hMPV)

Immunogen: The original antibody was generated by immunizing BALB/c mice with a combination of some or all of the following: intranasal infection with hMPV at 10^6 TCID₅₀ per animal of either NL1700, NL100, or NL199; intranasal infection with 10^6 PFU b/hPIV3/hMPV FNL100; intraperitoneal injection with adenovirus-vectored hMPV FNL100 or hMPV FNL199 at a dose of 9×10^7 TCID₅₀; purified soluble hMPV F protein derived from NL100 and NL199 sequences injected intraperitoneally with either GERBU MM adjuvant.

Specificity: This antibody recognizes the hMPV F protein (a.a. 238-245). 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: ELISA was used to confirm the binding of this antibody to hMPV F protein. This antibody has been reported to have high neutralizing activity against all of the hMPV types A1, A2, B1, and B2 with an in vitro IC₅₀ of $< 2 \mu\text{g/ml}$. The antibody is effective as passive prophylaxis in protecting hamsters from HMPV challenge and also reduces incidence of MPV infection and disease in animal models (PMID: 16873237). Intraperitoneal injection of this antibody into BALB/c mice significantly decreased lung viral titers after HMPV challenge when the antibody was administered prophylactically or therapeutically (PMID: 20619294).

Antibody First Published in: Ulbrandt et al. Isolation and characterization of monoclonal antibodies which neutralize human metapneumovirus in vitro and in vivo. J Virol. 2006 Aug;80(16):7799-806.

[PMID:16873237](#)

Note on publication: Describes the generation and characterization of two antibodies against Human metapneumovirus (hMPV).

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.