

Anti-F [DS7] Bulk Size Ab03691-23.0-BT

Isotype and Format: Rabbit IgG, Lambda

Clone Number: DS7

Alternative Name(s) of Target: hMPV; Fusion glycoprotein F0; Protein F; DSλ7

UniProt Accession Number of Target Protein: Q6WB98

Published Application(s): in vivo, neutralization; SPR, ELISA, IF

Published Species Reactivity: human metapneumovirus

Immunogen: Phage antibody libraries were prepared from human donor tissues. The original antibody was selected against recombinant hMPV F protein with multiple rounds of panning.

Specificity: The antibody is specific for HMPV. It cross-reacts with lineage A1, A2, B1.

Application Notes: The specificity of the original format of the antibody was confirmed by ELISA analysis. The antibody could specifically bind to hMPV-infected cell monolayers as shown by immunofluorescent assays. The Fab fragment neutralized the parent strain of hMPV with a 60% plaque reduction activity of 1.1 ug/ml and bound to hMPV F with an affinity of 9.8×10^{-10} M, as measured by surface plasmon resonance. The in vivo activity of the Fab fragment was tested on groups of cotton rats infected with hMPV. Nasal turbinates and lungs were harvested on day 4 postinfection and virus titers determined. Animals treated with the Fab fragment exhibited a >1,500-fold reduction in viral titer in the lungs, with a 4-fold reduction in the nasal tissues (Williams et al. 2007; 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: The original 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.