

## Anti-MERS-CoV Spike protein [3A1] Standard Size Ab01676-21.0

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, Kappa

**Clone Number:** 3A1

**Alternative Name(s) of Target:** Spike glycoprotein; S glycoprotein; E2; Peplomer protein; Spike protein S1

**UniProt Accession Number of Target Protein:** W6A029

**Published Application(s):** NTRL

**Published Species Reactivity:** MERS Coronavirus

**Immunogen:** The original antibody was generated by isolating neutralizing antibodies from a non-immune human Ab-phage library using a novel panning strategy.

**Specificity:** This antibody specifically binds the amino acids 349-590 in the S1 domain of the MERS-CoV.

**Application Notes:** This antibody blocks the binding of MERS-CoV spike protein to DPP4 receptor by binding to the aa 349-590 in the S1 domain of the MERS-CoV. This is a neutralizing antibody.

**Antibody First Published in:** Tang et al. Identification of human neutralizing antibodies against MERS-CoV and their role in virus adaptive evolution PNAS (2014) ; Issue: 19; Volume: 111; Pages: E2018-E2026.

[PMID:24778221](#)

**Note on publication:** Describes the development and characterization of the antibody.

### Product Form

**Size:** 50 µg Purified antibody.

**Purification:** Affinity Purified using a recombinant lectin column

**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.