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10-10023: Monoclonal Antibody to MERS-CoV Spike (S) protein (Clone: ABM4A80)

Clonality :	Monoclonal
Clone Name :	ABM4A80
Application :	WB
Uniprot ID :	A0A0U2MS74
Format :	Purified
Isotype :	Mouse IgG2b Kappa
Immunogen Information :	A recombinant protein fragment from 358-589 aa of MERS-CoV Spike (S1) protein was used as the immunogen for this antibody. This sequence covers the RBD domain (382-503aa) region.

Description

The MERS-CoV spike (S) protein is a type I transmembrane glycoprotein which contains 1353 amino acids and can be cleaved into two subunit S1 and S2. It forms large protruding spikes on the surface of the virus. The S1 subunit which contains RBD is responsible for binding to Dipeptidyl peptidase 4, which serves as the host cell receptor of MERS-CoV and S2 mediates the membrane fusion. In this process, heptad repeats 1 and 2 (HR1 and HR2) of the S protein assemble into a complex called six-helix bundle (6-HB) fusion core structure, which represents a key membrane fusion architecture. Importantly, the S protein is considered a key component of vaccines against coronavirus infection, including severe acute respiratory syndrome (SARS).

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis: 0.5-1 µg/ml

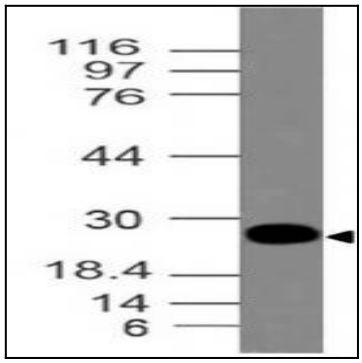

Fig-1: Western blot analysis of MERS-CoV (S) Protein. Anti-MERS-CoV (S) Protein antibody (Clone: ABM4A80) was tested at 0.1 µg/ml partial length recombinant protein.