BioVision
BioVision Incorporated

Anti-MERS-CoV S1 Mouse IgG1 Antibody

rev 03/20

CATALOG NO.:	**A2065-100 (100 µg)**

BACKGROUND DESCRIPTION: MERS-CoV belongs to the family of *Coronaviridae* and is characterized by large positive-sense RNA genome, that is 28 kb in length. One unique feature of MERS-CoV is that two-thirds of the viral genome is translated into two large polyproteins whereas the remaining viral genome is transcribed into sub-genomic RNAs. The two large polyproteins encode multiple non-structural proteins that play an important role in viral replication and transcription. MERS-CoV transcribes multiple sub-genomic RNAs that encode four structural proteins, namely, envelope (E), membrane (M), spike (S), and nucleocapsid (N). The Spike (S) protein is a 180 kDa type I glycosylated transmembrane protein, that assembles as a trimer on the surface of the virus, hence the coronavirus appears crown-shaped (In Latin, corona means crown). The ectodomain of the Spike protein consists of two domains: S1 domain whose main function is receptor binding, and S2 domain whose main function is membrane fusion. S1 binds to the cell surface receptor of host for attachment during the viral entry, this induces conformational change in the S2, thus enabling the fusion of host and viral membranes and ultimately entry of the viral genome in the host cell.

ANTIBODY TYPE:	Monoclonal
HOST/ISOTYPE:	Mouse / IgG1
PURITY:	Affinity purified using protein A
FORM:	Liquid
SPECIFICITY:	MERS Coronavirus Spike Protein S1 domain
CROSS REACTIVITY:	No cross reactivity with SARS Coronavirus
FORMULATION:	In 10 mM PBS, pH 7.2, 0.1% sodium azide
STORAGE CONDITIONS:	Short Term: 2-8°C. Long Term: -20°C. Avoid repeated freezing and thawing
APPLICATIONS AND USAGE:	ELISA, IF

Note: This product is not for diagnostic purposes. It is the sole responsibility of the user to assume care, control and custody of the material, and ensure appropriate disposal, as per all regulations.

RELATED PRODUCTS:

Anti-nCOVID-19 Antibody (A2061)
Anti-nCOVID-19 Antibody (Clone# 6F10) (A2060)

FOR RESEARCH USE ONLY! Not to be used on humans.