BT LAB
Bioassay Technology Laboratory

Optimize Your Research

Anti-Covid-19 Spike mAb IgM(03FC)

Description

Product type	Primary Antibody
Code	BT-CV00006
Host	Mouse
Isotype	IgM
Size	100ug, 1mg
Immunogen	The recombinant SARS-CoV-2 (2019-nCoV) Spike Protein S
Mol wt	N/A
Species reactivity	Covid-19
Clonality	Monoclonal
Recommended application	WB,ELISA
Concentration	2mg/mL
Full name	SARS-CoV-2 Spike, 2019-nCoV Spike, Covid-19 Spike
Synonyms	SARS-CoV-2 Spike, 2019-nCoV Spike, Covid-19 Spike

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

Coronaviruses (CoVs) infect human and animals and cause varieties of diseases, including respiratory, enteric, renal, and neurological diseases. CoV uses its spike protein to recognize ACE2 as its receptors and mediate membrane fusion and virus entry into host cells(PMID: 32221306). Each monomer of trimeric S protein is about 180 kDa, and contains two subunits, S1 and S2,S1 recognizes and binds to host receptors, and subsequent conformational changes in S2 facilitate fusion between the viral envelope and the host cell membrane(PMID: 19198616). Although the amino acid sequences of the S-glycoprotein were found to be different between the various HCoV, the structures showed high similarity, but the best 3D structural overlap shared by SARS-CoV and SARS-CoV-2, consistent with the shared ACE2 predicted receptor (PMID: 32522207). The spike protein of CoVs can be a target for vaccine and therapeutic development (PMID: 19198616).

Recommended Dilution

ELISA: 1:5000 - 1:100000

WB: 1:1000 - 1:10000

Not yet tested in other applications.

Images

No images.

Storage

-20°C for 1 year

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