Anti-MERS-CoV(NCoV/Novel coronavirus) Spike Monoclonal Antibody

catalog number: E-AB-V1302

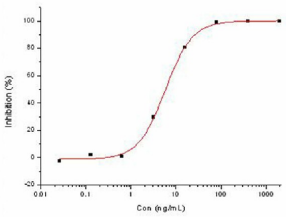
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	MERS-CoV
Immunogen	Recombinant MERS-CoV Spike Protein (S1+S2 ECD, aa 1-1297, His Tag)
Host	Rabbit
Isotype	IgG
Clone	723
Purification	Protein A Affinity
Buffer	0.2 μm filtered solution in PBS.

Applications	Recommended Dilution
ELISA	1:1000-10000

Data



Measured by its ability to inhibit infection of Caco-2 cells induced by MERS-CoV pseudovirus. The ED50 for this effect is 2.5~11 ng/mL.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended.

Background

Toll-free: 1-888-852-8623
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The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cel l. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2; DPP4, dipeptidyl peptidase-4; APN, aminopeptidase N; CEACAM, carcinoembryonic antigen-related cell adhesion molecule 1; Sia, sialic acid; O-ac Sia, O-acetylated sialic acid. The spike is essential for both host specificity and viral infectivity. The term 'peplomer' is typically used to refer to a grouping of heterologous proteins on the virus surface that function together. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. It's been reported that SARS-CoV-2 (COVID-19 coronavirus, 2019-nCoV) can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion.The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity. The main functions for the Spike protein are summarized as: Mediate receptor binding and membrane fusion; Defines the range of the hosts and specificity of the virus; Main component to bind with the neutralizing antibody; Key target for vaccine design; Can be transmitted between different hosts through gene recombination or mutation of the receptor binding domain (RBD), leading to a higher mortality rate.

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