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Datasheet for ABIN7383861

anti-MERS-Coronavirus Spike antibody (AA 1-1297)

Overview

Quantity:	100 µL
Target:	MERS-Coronavirus Spike (MERS-CoV S)
Binding Specificity:	AA 1-1297
Reactivity:	Middle East Respiratory Syndrome Coronavirus (MERS-CoV)
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This MERS-Coronavirus Spike antibody is un-conjugated
Application:	ELISA, Micro-Neutralization Assay (MNA)

Product Details

Immunogen:	Recombinant MERS-CoV Spike Protein (S1+S2 ECD, aa 1-1297, His Tag), ABIN7198812
Clone:	723
Isotype:	IgG
Specificity:	Anti-MERS-CoV(NCoV/Novel coronavirus) Spike Monoclonal Antibody
Purification:	Protein A Affinity

Target Details

Target:	MERS-Coronavirus Spike (MERS-CoV S)
Alternative Name:	MERS-CoV(NCoV/Novel coronavirus) Spike (MERS-CoV S Products)
Background:	Coronavirus s1,coronavirus s2,coronavirus spike,cov spike,ncov RBD,ncov s1,ncov s2,ncov

Target Details

spike,RBD,S,s1,Spike RBD,The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell. 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.

Application Details

Application Notes: ELISA 1:1000-10000

Restrictions: For Research Use only

Handling

Concentration: 1 mg/mL

Buffer: 0.2 µm filtered solution in PBS

Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.