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Datasheet for ABIN7198817 MERS-Coronavirus Spike Protein (His tag)





Overview

Quantity:	100 µg
Target:	MERS-Coronavirus Spike (MERS-CoV S)
Origin:	Middle East Respiratory Syndrome Coronavirus (MERS-CoV)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This MERS-Coronavirus Spike protein is labelled with His tag.

Product Details

Purpose:	Recombinant MERS-CoV Spike/S1 Protein (S1 Subunit, aa 1-725, His Tag)
Sequence:	Met1-Glu725
Characteristics:	A DNA sequence encoding the spike protein S1 Subunit MERS-CoV (AFS88936.1)(Met1-Glu725) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per μ g of the protein as determined by the LAL method
Biological Activity Comment:	1. Measured by its binding ability in a functional ELISA. Immobilized Spike Protein S1 (aa 1-725)(Cat: PKSV030241) at 10 μ g/ml (100 μ l/well) can bind biotinylated human DPP4 (Cat: PKSH033811).The EC50 of of biotinylated DPP4 (Cat: PKSH033811) is 0.6-1.39 μ g/ml. 2. Measured by its binding ability in a functional ELISA. Immobilized Spike Protein S1 (aa 1-725) (Cat: PKSV030241) at 10 μ g/ml (100 μ l/well) can bind biotinylated Fc-DPP4 (Cat: PKSH030456). The EC50 of biotinylated Fc-DPP4 (Cat: PKSH030456) is 0.02-0.05 μ g/ml.

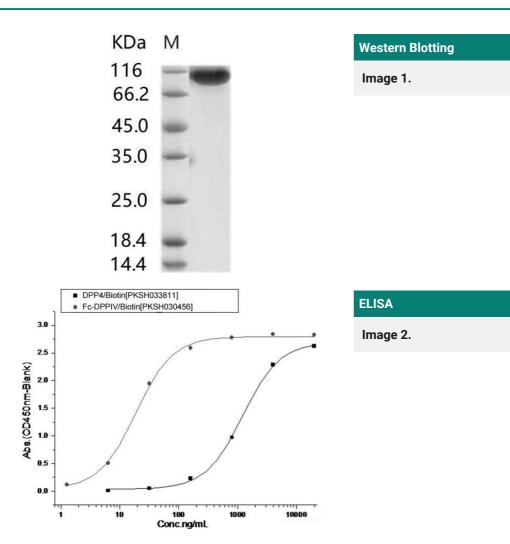
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Target Details		
Target:	MERS-Coronavirus Spike (MERS-CoV S)	
Alternative Name:	MERS S protein (MERS-CoV S Products)	
Background:	Background: The spike (S) glycoprotein of coronaviruses contains protrusions that will only	
	bind to certain receptors 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.	
	Synonym: coronavirus s1 Protein, MERS-CoV, coronavirus s2 Protein, MERS-CoV, coronavirus	
	spike Protein, MERS-CoV, cov spike Protein, MERS-CoV, ncov RBD Protein, MERS-CoV, ncov s1	
	Protein, MERS-CoV, ncov s2 Protein, MERS-CoV, ncov spike Protein, MERS-CoV, RBD Protein,	
	MERS-CoV, S Protein, MERS-CoV, s1 Protein, MERS-CoV, Spike RBD Protein, MERS-CoV	
Molecular Weight:	79.9kDa	
Application Details		
Comment:	94 kDa	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
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Handling	
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Images



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