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Datasheet for ABIN7198836 hCoV-OC43 Spike Protein (His tag)

Image



Overview

Quantity:	100 µg
Target:	hCoV-OC43 Spike (HCoV-OC43 S)
Origin:	Human Coronavirus OC43 (HCoV-OC43)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This hCoV-OC43 Spike protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Human coronavirus (HCoV-OC43) Spike S1 Protein (His Tag)
Sequence:	Met1-Leu794
Characteristics:	A DNA sequence encoding the Human coronavirus (HCoV-OC43) Spike S1 Protein
	(AVR40344.1) (Met1-Leu794) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g protein as determined by the LAL method.

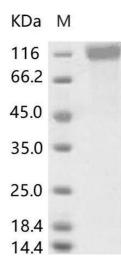
Target Details

Target:	hCoV-OC43 Spike (HCoV-OC43 S)
Alternative Name:	OC43 Spike Glycoprotein (HCoV-OC43 S Products)
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-

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	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.
Molecular Weight:	89.02kDa.
Application Details	
Restrictions:	For Research Use only
Restrictions: Handling	For Research Use only
	For Research Use only Lyophilized
Handling	
Handling Format:	Lyophilized
Handling Format: Reconstitution:	Lyophilized Please refer to the printed manual for detailed information.
Handling Format: Reconstitution:	Lyophilized Please refer to the printed manual for detailed information. Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 %
Handling Format: Reconstitution:	Lyophilized Please refer to the printed manual for detailed information. 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
Handling Format: Reconstitution: Buffer:	Lyophilized Please refer to the printed manual for detailed information. 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.
Handling Format: Reconstitution: Buffer: Storage:	Lyophilized Please refer to the printed manual for detailed information. 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. 4 °C,-20 °C,-80 °C

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Western E	Blotting
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Image 1.

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