

Datasheet for ABIN7581775 Recombinant anti-SARS-CoV-2 Spike antibody (AA 319-541)

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4 Images



Quantity:	100 µg
Target:	SARS-CoV-2 Spike
Binding Specificity:	AA 319-541
Reactivity:	SARS Coronavirus-2 (SARS-CoV-2)
Host:	Mouse
Expression System:	Phage display
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This SARS-CoV-2 Spike antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF)

Product Details

Purpose:	recombinant anti-SARS-CoV-2 spike antibody	
Immunogen:	No immunization, animal-free antibody development. Antigen: Spike Protein SARS-CoV2 RVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISNCVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRG	
Clone:	AB68-A09	
lsotype:	lgG2a	
Specificity:	This is an antibody developed by antibody phage display technology using a human naive antibody gene library and SAF	
Cross-	No known cross reactivity. No cross-reactivity to other human coronaviruses.	
Reactivity		

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Product Details			
(Details):			
Characteristics:	This antibody	can be detected with anti-mouse Fc secondary antibodies.	
Purification:	Protein A purification		
Grade:	Animal-Free		
Target Detai	ls		
Target:		SARS-CoV-2 Spike	
Alternative Nam	ie:	SARS-CoV-2 spike protein (RBD) (SARS-CoV-2 Spike Products)	
Background:		Coronaviruses (CoVs) are enveloped non-segmented positive-sense single-stranded RNA	
		viruses and can infect respiratory, gastrointestinal, hepatic and central nervous system of	
		human and many other wild animals. Recently, a new severe acute respiratory syndrome β -	
		coronavirus called SARS-Cov-2 (or 2019-nCov) has emerged, which causes an epidemic of	
		acute respiratory syndrome (called coronavirus human disease 2019 or COVID-19). SARS-Cov-	
		2 shares 79.5 % sequence identity with SARS-CoV and is 96.2 % identical at the genome level to	
		the bat coronavirus BatCoV Ra I G133, suggesting it had originated in bats. SARS-CoV-2	
		contains 4 structural proteins, including Envelope (E), Membrane (M), Nucleocapsid (N) and	
		Spike (S), which is a transmembrane protein, composed of two subunits S1 and S2. The S	
		protein plays a key role in viral infection and pathogenesis. The S1 subunit contains the N-	
		terminal domain (NTD) and a receptor binding domain (RBD), which binds to the cell surface	
		receptor Angiotensin-Converting Enzyme 2 (ACE2) present at the surface of epithelial cells,	
		causing mainly infection of human respiratory cells, whereas S2 harbors heptad repeat 1 (HR1)	
		and HR2. The RBD domain first binds its receptor to form an RBD/ACE2 complex. This triggers	
		conformational changes in the S protein, leading to membrane fusion mediated via HR1 and	
		HR2 and consequently in viral entry into target cells. Antibodies targeting various regions of S	
		protein have different mechanisms in inhibiting SARS-CoV-2 infection. For example, NTD-	
		targeting antibodies bind the NTD to form an NTD/mAb complex, thereby preventing	
		conformational changes in the S protein and blocking membrane fusion and viral entry. RBD-	
		targeting antibodies form RBD/mAb or RBD/Nb complexes that could inhibit binding of the RBD	
		to ACE2, thereby preventing entry of SARS-CoV-2 into target cells.	
Molecular Weig	ht:	76 kDa	
NCBI Accession	l:	YP_009724390	

UniProt:

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P0DTC2

Application Details			
Application Notes:	Western Blot: 0.2-5 μ g/mL ELISA: 1-12 μ g/mL as coating antibody 0.5-5 μ g/mL as detection antibody IF: 0.1 - 10 μ g/mL Optimal working dilution should be determined by the investigator		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Concentration:	1 mg/mL		
Buffer:	PBS, pH 7.4,		
Storage:	-20 °C		

Images

to stain SARS-CoV-2 infected Calu-3 cells



SARS-CoV-2 (Zagreb)



Immunofluorescence

Image 1. Calu-3 cells were infected with SARS-CoV-2 (B.1.1.7 or Zagreb), fixed with formaldehyde and stained with (ABIN7581775) followed by anti-mouse-Alexa488 staining and a nuclear marker.

green: anti-mouse Alexa488 blue: nuclei staining



ELISA

Image 2. S1 Protein of different beta-corona strains were coated on an ELISA plate at 100 ng. Anti-SARS-CoV-2 S1 Antibody, (ABIN7581775), was titrated on top. Detection with anti-mouse HRP conjugated antibody. Binding reactions were visualized using TMB. Absorbance was measured in an ELISA plate reader at 450 nm using the signal at 620 nm as reference.

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ELISA

Image 3. S1 Protein of different corona strain mutants (produced in Hi5 cells) were coated on an ELISA plate at 100 ng. Anti-SARS-CoV-2 S1 Antibody, (ABIN7581775), was titrated on top. Detection with anti-mouse HRP conjugated antibody. Binding reactions were visualized using TMB. Absorbance was measured in an ELISA plate reader at 450 nm using the signal at 620 nm as reference.

Please check the product details page for more images. Overall 4 images are available for ABIN7581775.