

Rabbit Polyclonal Antibody to SARS-CoV Spike S1 Subunit (Antigen Affinity Purified)



Sino Biological Inc.
Biological Solution Specialist

Catalog Number: 40150-T60

General Information	
Immunogen:	Recombinant SARS-CoV Spike S1 Subunit protein (Catalog#40150-V08B1)
Ig Type:	Rabbit IgG
Applications:	WB,ELISA,IHC-P,IP (Antibody's applications have not been validated with corresponding viruses. Optimal concentrations/dilutions should be determined by the end user.)
Specificity:	SARS-CoV Spike S1 Subunit Protein
Formulation:	0.2 µm filtered solution in PBS
Storage:	< -20°C

Preparation

Produced in rabbits immunized with purified, recombinant SARS-CoV Spike S1 Subunit (rh SARS-CoV Spike S1 Subunit; Catalog#40150-V08B1; AAX16192.1; Met1-Arg667). SARS-CoV Spike S1 Subunit specific IgG was purified by SARS-CoV Spike S1 Subunit affinity chromatography.

Storage

This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. **Preservative-Free.**

Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. **Avoid repeated freeze-thaw cycles.**

Background

The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell: they are 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. Most notable is severe acute respiratory syndrome (SARS). The severe acute respiratory syndrome-coronavirus (SARS-CoV) spike (S) glycoprotein alone can mediate the membrane fusion required for virus entry and cell fusion. It is also a major immunogen and a target for entry inhibitors. The SARS-CoV spike (S) protein is composed of two subunits; the S1 subunit contains a receptor-binding domain that engages with the host cell receptor angiotensin-converting enzyme 2 and the S2 subunit mediates fusion between the viral and host cell membranes. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity, during infection with SARS-CoV.

Reference

Shen S, *et al.* (2007) Expression, glycosylation, and modification of the spike (S) glycoprotein of SARS CoV. *Methods Mol Biol.* 379: 127-35.

Du L, *et al.* (2009) The spike protein of SARS-CoV--a target for vaccine and therapeutic development. *Nat Rev Microbiol.* 7 (3): 226-36.

Xiao X, *et al.* (2004) The SARS-CoV S glycoprotein. *Cell Mol Life Sci.* 61 (19-20): 2428-30.

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Rabbit Polyclonal Antibody to Human SARS-CoV Spike S1 Subunit (Antigen Affinity Purified)



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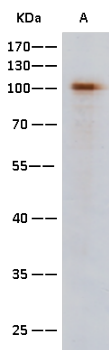
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Applications

Direct ELISA –This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human SARS Coronavirus Spike S1 Subunit. The detection limit for Human SARS Coronavirus Spike S1 Subunit is < 0.039 ng/well.

Western blot –

WB: 0.5-1 µg/ml



Lanes	A
Items	
Sample (Recombinant protein)	SARS-Spike-S1-His(1-667)
Sample Volume (ng/lane)	30ng
Gel	13% SDS-PAGE reducing gel
Recommended Concentration	1µg/ml
Secondary Antibody	HRP Conjugated Goat anti-rabbit IgG (H+L) at 1:1000 dilution

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