Anti-SARS-CoV S Neutralizing Antibody (V3S-0522-YC3901)

Cat. No.: V3S-0522-YC3901

Summary

Description	This product is a monoclonal antibody derived from Human (*Homo sapiens*), which can specifically recognize SARS coronavirus spike protein. The antibody is expressed with mammalian cell transient expression system, serum-free and purified by affinity chromatography. The purity and integrity are tested via SDS-PAGE and SEC-HPLC analysis. Given an antigen, additional QC measures are also desired such as affinity testing and binding validation. Specifically, the antibody is provided in multiple formats for in vivo and in vitro assays. The *In vivo* version features greater than 95% purity, ultra-low endotoxin levels (<1 EU/mg or 0.1 EU/mg), and is preservative, stabilizer, and carrier protein-free.
Clonality	Monoclonal
Host Species	Human
Target Species	Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV)
Isotype	IgG
Isotype Control	C34555
Secondary Antibody	C32400; C75370; C10513; C51635; C45530

Property

Expression Species	HEK293F or CHO
Conjugation	None
Purity	>95%, determined by SDS-PAGE and/or SEC-HPLC
Endotoxin	<1 EU/mg, determined by LAL method
Purification	Protein A affinity purified
Sterility	0.2 μM filtered
Formulation	PBS, pH 7.4
Preservation	No preservatives
Stabilizer	No stabilizers
Storage	Store at 4^{0}C within a week. For longer storage, aliquot and store at -20^{0}C.

Applications

For lab research use only, not for diagnostic, therapeutic or any *in vivo* human use.

SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-biolabs.com
Tel: 1-631-381-2994 Fax: 1-631-207-8356

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Application	ELISA; WB; Neut
Application Notes	The antibody is recommended for detection of SARS-CoV S by ELISA, WB, Neut assays.

Target

Target	SARS-CoV S
Alternative Name	SARS coronavirus; SARS-CoV; SARS coronavirus spike protein; SARS-CoV S; E2 glycoprotein precursor; E2
Gene ID	1489668
Introduction	Severe acute respiratory syndrome (SARS) is a newly emerging infectious disease caused by a novel coronavirus, SARS-coronavirus (SARS-CoV). 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.
Research Area	Microbiology; Infectious Disease; Coronavirus Disease 2019
Related Disease	SARS-CoV infection

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