

## ARG43728 anti-SARS-CoV-2 ORF7a antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes SARS-CoV-2 ORF7a
Tested Reactivity	Virus
Tested Application	ELISA, IHC-P
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SARS-CoV-2 ORF7a
Species	Virus
Immunogen	Synthetic peptide corresponding to 15 amino acids near the central domain of SARS-CoV-2 (COVID-19) ORF7a protein.  The immunogen is located within 40-90 amino acids of the SARS-CoV-2 (COVID-19) ORF7a protein.
Conjugation	Un-conjugated
Alternate Names	ORF7a protein, Accessory protein 7a, Protein U122, Protein X4, ORF7a

### Application Instructions

Application table	Application	Dilution
	ELISA	detect 2 ng of free peptide at 1 µg/mL
	IHC-P	1 µg/mL
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

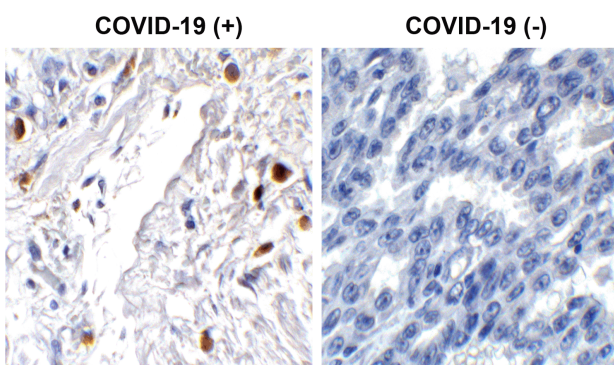
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide.
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

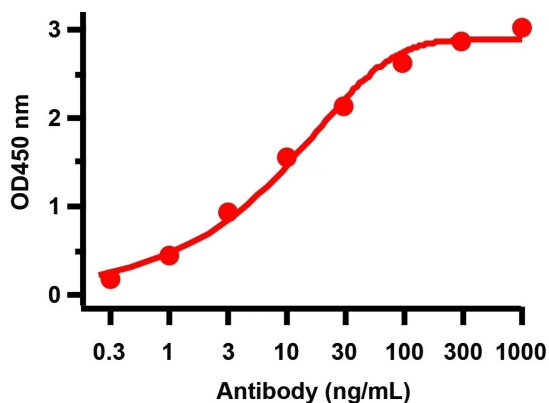
Gene Symbol	ORF7a protein, Accessory protein 7a, Protein U122, Protein X4, ORF7a
Gene Full Name	SARS-CoV-2 ORF7a
Background	Coronavirus disease 2019 (COVID-19), formerly known as 2019-nCoV acute respiratory disease, is an infectious disease caused by SARS-CoV-2, a virus closely related to the SARS virus. The disease is the cause of the 2019–20 coronavirus outbreak. SARS-CoV-2 virus proteins include structural proteins, non-structural proteins and accessory factors. The structure of SARS-CoV-2 consists of the following: a spike protein (S), hemagglutinin-esterase dimer (HE), a membrane glycoprotein (M), an envelope protein (E) a nucleocapsid protein (N) and RNA. SARS-CoV-2 non-structural protein is ORF1ab that consists of 16 proteins (nsp1-nsp16), while accessory factors include ORF3a, ORF3b, ORF6, ORF7a, ORF7b, ORF8, ORF9b, ORF7a and ORF7a. ORF7a plays a role as antagonist of host tetherin (BST2), disrupting its antiviral effect. It acts by binding to BST2 thereby interfering with its glycosylation. It may suppress small interfering RNA (siRNA) and may bind to host ITGAL, thereby playing a role in attachment or modulation of leukocytes.
Highlight	Related products: <a href="#">SARS-CoV antibodies</a> ; <a href="#">SARS-CoV ELISA Kits</a> ; <a href="#">SARS-CoV recombinant proteins</a> ; <a href="#">Anti-Rabbit IgG secondary antibodies</a> ; Related news: <a href="#">HMGB1, a biomarker and therapeutic target in COVID-19</a>

## Images



ARG43728 anti-SARS-CoV-2 ORF7a antibody IHC-P image

Immunohistochemistry: Paraffin-embedded COVID-19 patient lung tissue (left) or health control (right) lung tissue were fixed with formaldehyde and blocked with 10% serum for 1 hour at RT. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0). The tissue section was stained with ARG43728 anti-SARS-CoV-2 ORF7a antibody at 1 $\mu$ g/mL dilution, overnight at 4°C. Counter stained with Hematoxylin.



ARG43728 anti-SARS-CoV-2 ORF7a antibody ELISA image

Direct ELISA: SARS-CoV-2 ORF7 rprotein was coated on the plate and ARG43728 anti-SARS-CoV-2 ORF7 antibody was used as the capture antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 0.3 ng/mL to 1000 ng/mL.