ARG43729
anti-SARS-CoV-2 ORF8 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizesSARS-CoV-2 ORF8
Tested Reactivity	Virus
Tested Application	ELISA, IHC-P, WB
Specificity	ORF8 Antibody is predicted to not cross-react with other coronavirus family members.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SARS-CoV-2 ORF8
Species	Virus
Immunogen	Synthetic peptide corresponding to 14 amino acids near carboxyl terminus of SARS-CoV-2 (COVID-19) ORF8 protein. The immunogen is located within the last 50 amino acids of the SARS-CoV-2 (COVID-19) ORF8 protein.
Conjugation	Un-conjugated
Alternate Names	ORF8 protein, ns8, ORF8, Non-structural protein 8

Application Instructions

Application table

Application	Dilution
ELISA	detect 2 ng of free peptide at 1 µg/mL
IHC-P	0.1 µg/mL
WB	1 µg/mL

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

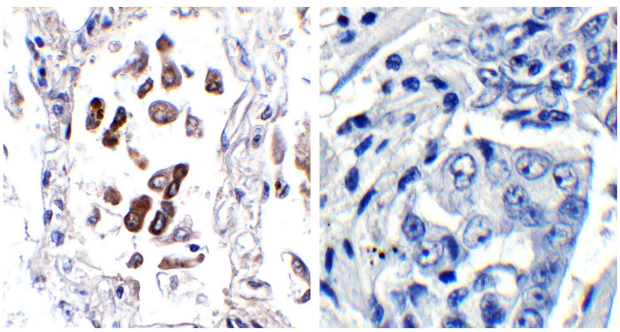
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide.
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. 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

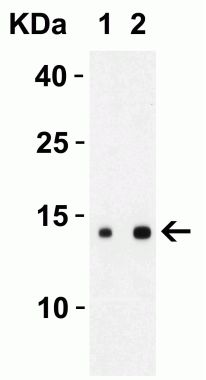
Gene Symbol	ORF8
Gene Full Name	SARS-CoV-2 ORF8
Background	Coronavirus disease 2019 (COVID-19), formerly known as 2019-nCoV acute respiratory disease, is an infectious disease caused by SARS-CoV-2, a virus closely related to the SARS virus. The disease is the cause of the 2019–20 coronavirus outbreak. 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 nucleoclapid 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, ORF9c and ORF10. ORF8 may play a role in modulating host immune response (Probable). May play a role in blocking host IL17 cytokine by its interaction with host IL17RA.
Highlight	Related products: SARS-CoV antibodies; SARS-CoV ELISA Kits; SARS-CoV recombinant proteins; Anti-Rabbit IgG secondary antibodies; Related news: HMGB1, a biomarker and therapeutic target in COVID-19

Images



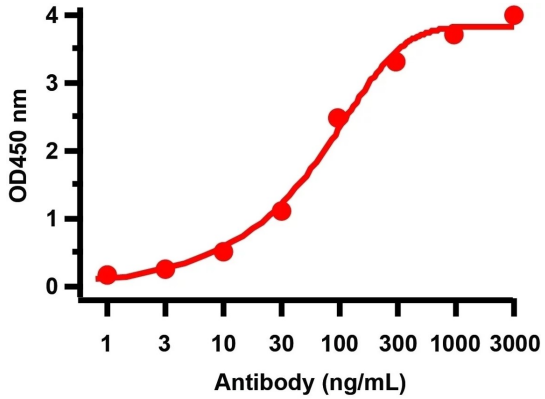
ARG43729 anti-SARS-CoV-2 ORF8 antibody IHC-P image

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 ARG43729 anti-SARS-CoV-2 ORF8 at 0.1µg/mL dilution, overnight at 4°C. Counter stained with Hematoxylin.



ARG43729 anti-SARS-CoV-2 ORF8 antibody WB image

Western blot: 30 ng of SARS-CoV-2 ORF8 recombinant protein stained with ARG43729 anti-SARS-CoV-2 ORF8 for 1 hour incubation at RT in 5% NFDM/TBST, at 1 µg/ml (left) or 2 µg/ml (right) dilution.



ARG43729 anti-SARS-CoV-2 ORF8 antibody ELISA image

Direct ELISA: SARS-CoV-2 ORF8 rprotein was coated on the plate and ARG43729 anti-SARS-CoV-2 ORF8 antibody was used as the capture antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 1 ng/mL to 3000 ng/mL.