ARG66739
anti-SARS-CoV / SARS-CoV-2 Spike protein (RBD) antibody [CR3022]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Recombinant Human Monoclonal antibody [CR3022] recognizes SARS-CoV / SARS-CoV-2 Spike protein (RBD)
Tested Reactivity	Virus
Tested Application	ELISA, ICC/IF, Neut
Specificity	This antibody binds the amino acids 318-510 in the S1 domain (RBD, Receptor Binding Domain) of the SARS-CoV Spike protein as well as SARS-CoV-2 (COVID-19) Spike protein. The antibody also binds to P462L-substituted S318–510 fragments of the SARS spike protein. The binding epitope is only accessible in the "open" conformation of the spike protein (Joyce et al. 2020)
Host	Human
Clonality	Monoclonal
Clone	CR3022
Isotype	IgG1
Target Name	SARS-CoV / SARS-CoV-2 Spike protein (RBD)
Species	Virus
Conjugation	Un-conjugated

Application Instructions

Application table

Application	Dilution
ELISA	1:5000 - 1:20000
ICC/IF	1:500
Neut	Assay-dependent

Application Note: Neutralizing: Clone CR3022 is the first anti-SARS-CoV neutralizing antibody to cross-react with SARS-CoV-2. Structural modeling has confirmed that CR3022 targets a conserved epitope between SARS-CoV and SARS-CoV2 in the RBD domain (PMID: 32245784, 32065055).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

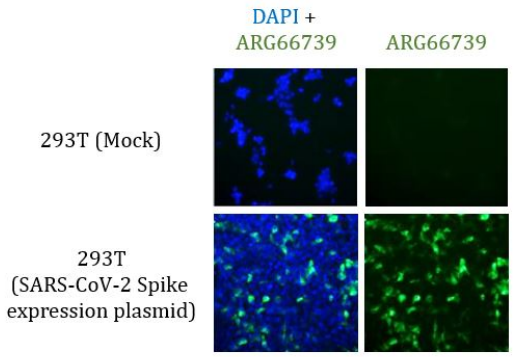
Form	Liquid
Purification	Purified from antibody expressing HEK293 cell culture medium.
Purity	> 98% (SDS-PAGE)
Buffer	PBS (pH 7.4)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

	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

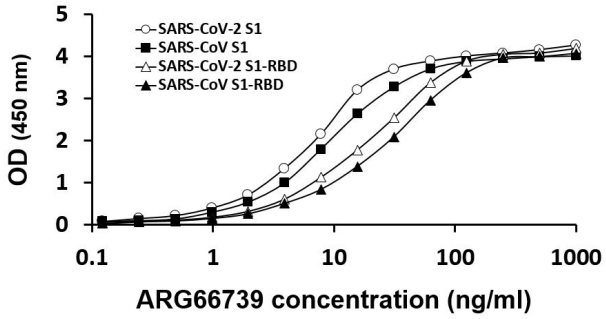
Highlight	Related products: SARS-CoV antibodies; SARS-CoV ELISA Kits; SARS-CoV recombinant proteins; Anti-Human IgG secondary antibodies; Related news: HMGB1, a biomarker and therapeutic target in COVID-19 Exploring Antiviral Immune Response

Images



ARG66739 anti-SARS-CoV / SARS-CoV-2 Spike protein (RBD) antibody [CR3022] ICC/IF image

Immunofluorescence: 293T cells were transfected with Mock or SARS-CoV-2 Spike expression plasmid. Cells were stained with ARG66739 anti-SARS-CoV / SARS-CoV-2 Spike protein (RBD) antibody [CR3022] (green). DAPI (blue) for nuclear staining.



ARG66739 anti-SARS-CoV / SARS-CoV-2 Spike protein (RBD) antibody [CR3022] ELISA image

ELISA: Titration of ARG66739 anti-SARS-CoV / SARS-CoV-2 Spike protein (RBD) antibody [CR3022].

RBD = Receptor binding domain