SARS-CoV-2 ORF3a Antibody (RQ6295)

Catalog No.	Formulation	Size
RQ6295	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P0DTC3
Applications	ELISA
Limitations	This SARS-CoV-2 ORF3a antibody is available for research use only.



Description

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID-19). Virus particles include the RNA genetic material and structural proteins needed for invasion of host cells. Once inside the cell the infecting RNA is used to encode structural proteins that make up virus particles, nonstructural proteins that direct virus assembly, transcription, replication and host control and accessory proteins whose function has not been determined. ORF3a encodes a viral accessory protein. Based on its similarity to other coronavirus proteins, ORF3a protein is thought to be a protein with ion channel activity (viroporin) that activates the NLRP3 inflammasome. ORF3a may also play a role in virus replication and pathogenesis.

Application Notes

Optimal dilution of the SARS-CoV-2 ORF3a antibody should be determined by the researcher.

Immunogen

Amino acids MDLFMRIFTIGTVTLKQGEIKDATPSDFVRATATIPIQASggggFQSASKIITLKKRWQLALSKGVHFVCNLgggg QSINFVRIIMRLWLCWKCRSKNPLLYDANYFLCWHTNCYDYC IPYNSVTSSIVITSGDGTTSPISEHDYQIGGYTEKWESGVKDCVVLHSYFTSDYYQLYSTQLSTDTGVEHVTFFIYNKIVDEP EEHVQIHTIDGSSGVVNPVMEPIYDEPTTTTSVPL were used as the immunogen for the SARS-CoV-2 ORF3a antibody.

Storage

After reconstitution, the SARS-CoV-2 ORF3a antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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