

SARS-CoV-2 (COVID-19) ORF9c Antibody

Infectious Disease, COVID-19

Catalog # ASC12225

Product Information

Application	WB, E
Primary Accession	P0DTD3
Other Accession	P0DTD3
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Clone Names	ORF9c
Calculated MW	8050
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	WB: 0.25-1 µg/mL Antibody validated: SARS-CoV-2 (COVID-19) ORF9c antibody can detect 2 ng of free peptide at 1 µg/mL in ELISA. It can detect SARS-CoV-2 ORF9c in transfected human cells by WB. All other applications and species not yet tested

Additional Information

Other Names	ORF9c protein, Uncharacterized protein 14, ORF14, ORF9c
Target/Specificity	ORF9c Antibody is predicted to not cross-react with other coronavirus family members.
Reconstitution & Storage	SARS-CoV-2 (COVID-19) ORF9c antibody can be stored at 4 °C for three months and -20 °C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	SARS-CoV-2 (COVID-19) ORF9c Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	9c
Function	May induce apoptosis in cardiomyocytes when overexpressed ex- vivo.
Cellular Location	Membrane; Single-pass membrane protein

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 (1). The disease is the cause of the 2019–20 coronavirus outbreak (2). 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, ORF9c and ORF10. ORF9c may play a role in host-virus interaction.

References

Gorbalenya. bioRxiv: 2020.;Hui et al. Int J Infect Dis. 2020;91:264-266.

Images

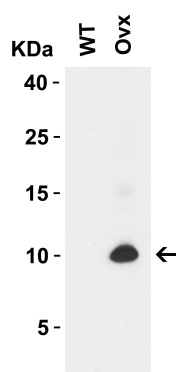


Figure 1 Western Blot Validation with SARS-CoV-2 (COVID-19) ORF9c Overexpressed 293 Cells
Loading: 10 µg per lane of 293 cell lysate from WT and SARS-CoV-2 (COVID-19) ORF9c transfected cells.
Antibodies: SARS-CoV-2 (COVID-19) ORF9c ASC12225, 1 µg/ml, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

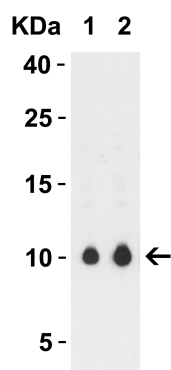


Figure 2 Western Blot Validation with SARS-CoV-2 (COVID-19) ORF9c Overexpressed 293 Cells
Loading: 10 µg per lane of 293 cell lysate from WT and SARS-CoV-2 (COVID-19) ORF9c transfected cells.
Antibodies: SARS-CoV-2 (COVID-19) ORF9c, ASC12225, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: 0.25 µg/mL and Lane 2: 0.5 µg/mL

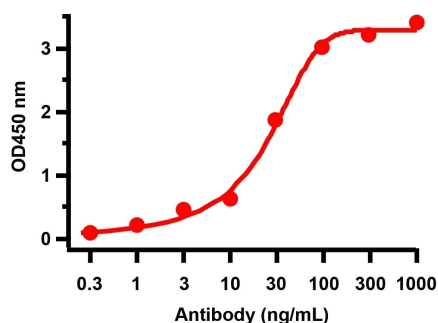


Figure 3 ELISA Validation
Antibodies: SARS-CoV-2 (COVID-19) ORF9c Antibody, ASC12225. A direct ELISA was performed using SARS-CoV-2 ORF9c immunogen peptide (ASC12225P) as coating antigen and the anti-SARS-CoV-2 (COVID-19) ORF9c antibody as the capture antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 0.3 ng/mL to 1000 ng/mL

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.