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

Infectious Disease, COVID-19
Catalog # ASC12225

Specification

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

Application	**WB, E**
Primary Accession	P0DTD3
Other Accession	P0DTD3
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
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**

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

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

Name 9c

Function
May induce apoptosis in cardiomyocytes when overexpressed ex- vivo.

Cellular Location
Membrane; Single-pass membrane protein

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

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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

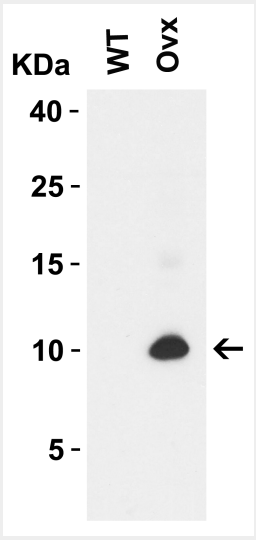

Figure 1 Western Blot Validation with SARS-CoV-2 (COVID-19) ORF9c Overexpressed 293 Cells
Loading: 10 µg per lane of 293 cell lysate from WT and SARS-CoV-2 (COVID-19) ORF9c transfected cells. Antibodies: SARS-CoV-2 (COVID-19) ORF9c 9291, 1 µg/ml, 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

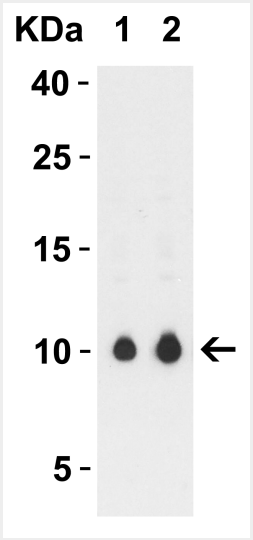

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Figure 2 Western Blot Validation with SARS-CoV-2 (COVID-19) ORF9c Overexpressed 293 Cells

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, 9291, 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

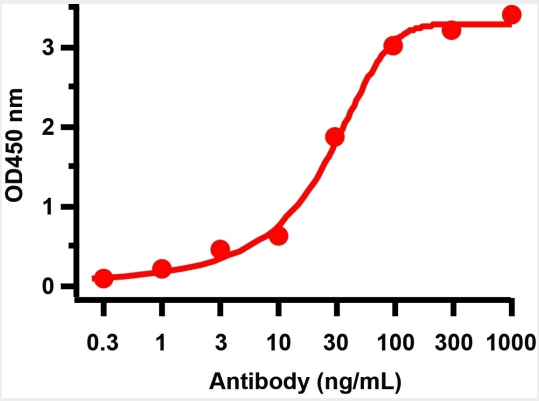

Figure 3 ELISA Validation

Antibodies: SARS-CoV-2 (COVID-19) ORF9c Antibody, 9291. A direct ELISA was performed using SARS-CoV-2 ORF9c immunogen peptide (9291P)) 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

SARS-CoV-2 (COVID-19) ORF9c Antibody - 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-esterease 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.
ORF9c may play a role in host-virus interaction.

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

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