

Anti- SARS-CoV-2(2019-nCoV) / COVID-19 NP antibody(Clone No.9C4)

Clone	Cross reactivity	Application notes	Host	Isotype	Storage
9C4	-	WB, ICC, ELISA	mouse	IgG2b, κ	-20°C

BACKGROUND : SARS-CoV-2(2019-nCoV) , a kind of coronaviruses, is causes of severe human respiratory disease COVID-19. Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a nucleocapsid of helical symmetry. Nucleocapsid protein is a most abundant protein of coronavirus. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating pathways.

Immunogen Synthetic peptide corresponding to C-terminus region (aa 408-417) of SARS-CoV-2 Nucleocapsid protein, QQSMSSADST

Host Mouse

Isotype IgG2b, κ

Myeloma SP2

Cross reactivity No cross-reactivity with SARS-CoV Nucleocapsid protein (Fig.3)

Specificity SARS-CoV-2(2019-nCoV) Nucleocapsid protein

Application notes Recommended use

WB, ICC, ELISA

Recommended dilutions

Western blotting: 1/10000 (Fig.1)

Immunocytochemistry: 1/500 (Fig.2)

ELISA : 1/5000 (Fig.3)

Other applications have not been tested.

Optimal dilutions/concentrations should be determined by the end user.

Source Culture Supernatant

Purification Ion-exchange chromatography

Form Liquid

Presentation Purified monoclonal antibody in PBS, 50% Glycerol, 0.05%w/v ProClin300

Concentration 1 mg/mL

Volume 100 μL

Storage Store below -20°C

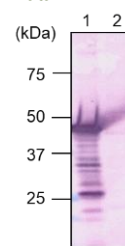
(below -70°C for prolonged storage)

Aliquot to avoid cycles of freeze/thaw.

Label Unlabeled

References

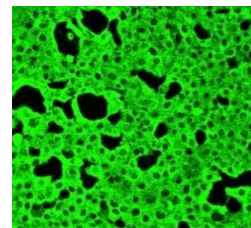
Data



1. SARS-CoV-2 infected Vero WCE
 2. Uninfected Vero WCE

Fig.1 Western blot - SARS-CoV-2 NP antibody (9C4) SARS-CoV-2 infected or uninfected Vero total cell extracts

SARS-CoV-2 infected cells



Uninfected cells

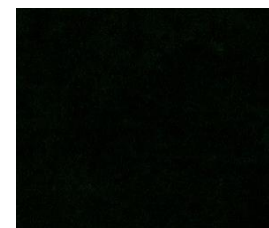


Fig.2 Immunocytochemistry/Immunofluorescence - SARS-CoV-2 NP antibody (9C4) SARS-CoV-2 infected or uninfected Vero cells

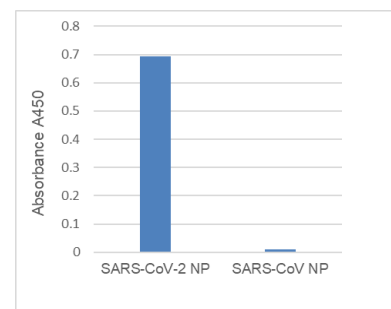


Fig.3 ELISA analysis - SARS-CoV-2 NP antibody (9C4) SARS-CoV-2 NP or SARS-CoV NP

Other Data Link : UniProtKB/Swiss-Prot A0A6C0T6Z7