Antibodies

Anti-SARS-CoV Nucleoprotein Antibody, Clone 001 (Recombinant)

Rabbit monoclonal IgG antibody against SARS-CoV, SARS-CoV-2 (2019-nCoV) nucleoprotein (HEK293-expressed recombinant)

Catalog #100-0529	50 µL
#100-0580	100 µL

STEMCELL™ TECHNOLOGIES
Scientists Helping Scientists™ | WWW.STEMCELL.COM
TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713
INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM
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Product Description

The 001 antibody reacts with the nucleoprotein expressed by SARS-associated coronavirus (SARS-CoV) and has been shown to cross-react with the SARS-CoV-2 (2019-nCoV) nucleoprotein. Coronaviruses infect both animal and human hosts and can cause a wide range of potentially fatal symptoms, including upper respiratory tract infections in humans. These viruses are enveloped and contain single-stranded (positive-sense) RNA associated with a nucleoprotein. These nucleoproteins are abundantly produced within CoV-infected cells, where their primary function is to package the viral genome into flexible, helical ribonucleoprotein complexes called nucleocapsids. The nucleocapsid binds to genomic RNA and is understood to interact with viral membrane proteins during virion assembly, therefore playing a critical role in ensuring the efficiency of viral transcription, translation, and assembly. In host cells, the nucleocapsid can directly impact normal cell functions and cause cell-cycle deregulation, increased COX-2 production, and inhibition of interferon production.

Target Antigen Name:	SARS-CoV nucleoprotein
Alternative Names:	SARS-CoV nucleocapsid protein
Gene ID:	N/A (GenBank: JX163928.1)
Species Reactivity:	SARS-CoV nucleocapsid protein, SARS-CoV-2 (2019-nCoV) nucleocapsid protein (ELISA, WB). This antibody does not cross-react by ELISA with HCoV-229E nucleoprotein, HCoV-HKU1 (isolate N5) nucleoprotein, HCoV-NL63 nucleoprotein, HCoV-OC43 nucleoprotein, or MERS-CoV nucleoprotein.
Host Species:	Rabbit (recombinant antibody expressed in HEK293 cells)
Clonality:	Monoclonal
Clone:	001
Isotype:	IgG
Immunogen:	Recombinant SARS-CoV (isolate:Tor2) nucleoprotein comprising amino acids Met1 - Ala422 fused to a C-terminal poly-His tag
Conjugate:	Unconjugated

Applications

Verified:	Interferometry, WB
Reported:	ELISA, FC, ICC, IF, IHC, IP

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at -20°C when stored undiluted. Stable until expiry date (EXP) on label.
Directions for Use:	The suggested use of this antibody is: ELISA,1:5000 - 1:10,000; WB, 1:1000 - 1:5000. It is recommended that the antibody be titrated for optimal performance for each application.

Related Products

For a complete list of antibodies, including other conjugates, sizes, and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.