

Product datasheet for **TA379334**

3C-like Proteinase Rabbit Polyclonal Antibody

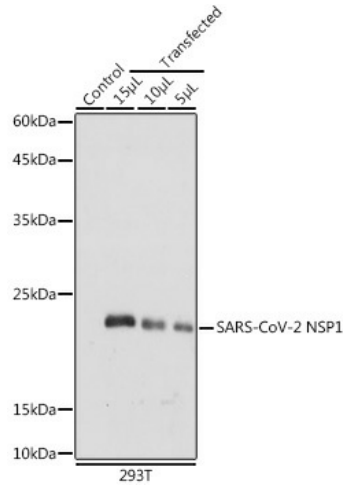
Product data:

Product Type:	Primary Antibodies
Applications:	IP, WB
Recommended Dilution:	WB, 1:500 - 1:2000 IP, 1:50 - 1:200
Reactivity:	SARS-CoV-2
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant fusion protein of SARS-CoV-2 NSP1.
Formulation:	Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Database Link:	Entrez Gene 43740578 SARS-CoV-2 P0DTC2

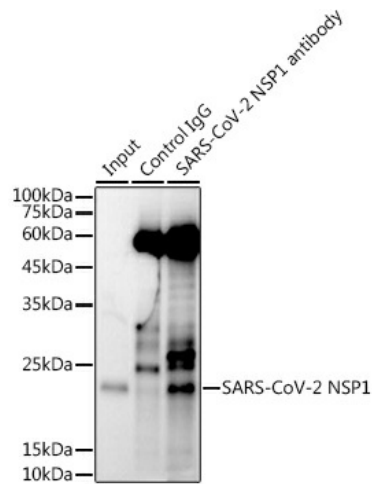
Background: [Spike protein S1]: attaches the virion to the cell membrane by interacting with host receptor, initiating the infection. Binding to human ACE2 receptor and internalization of the virus into the endosomes of the host cell induces conformational changes in the Spike glycoprotein. Binding to host NRP1 and NRP2 via C-terminal polybasic sequence enhances virion entry into host cell. This interaction may explain virus tropism of human olfactory epithelium cells, which express high level of NRP1 and NRP2 but low level of ACE2. The stalk domain of S contains three hinges, giving the head unexpected orientational freedom. Uses human TMPRSS2 for priming in human lung cells which is an essential step for viral entry. Can be alternatively processed by host furin. Proteolysis by cathepsin CTSL may unmask the fusion peptide of S2 and activate membranes fusion within endosomes.



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Product images:


Western blot analysis of extracts of normal 293T cells 293T transfected with NSP1 Protein, using SARS-CoV-2 NSP1 antibody (TA379334) at 1:1000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit . | Exposure time: 10s.



Immunoprecipitation analysis of 600ug extracts of 293T cells using 3ug SARS-CoV-2 NSP1 antibody (TA379334). Western blot was performed from the immunoprecipitate using SARS-CoV-2 NSP1 antibody (TA379334) at a dilution of 1:1000.