A20200

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SARS-CoV-2 NSP1 Rabbit pAb

Catalog No.: A20200

Basic Information

Observed MW
20kDa

Calculated MW
141kDa

Category
Polyclonal Antibody

Applications
WB,IP,ELISA

Cross-Reactivity
SARS-CoV-2

Background

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID-19). Virus particles include the RNA genetic material and structural proteins needed for invasion of host cells. Once inside the cell the infecting RNA is used to encode structural proteins that make up virus particles, nonstructural proteins that direct virus assembly, transcription, replication and host control and accessory proteins whose function has not been determined.~ ORF1ab, the largest gene, contains overlapping open reading frames that encode polyproteins PP1ab and PP1a. The polyproteins are cleaved to yield 16 nonstructural proteins, NSP1-16. Production of the longer (PP1ab) or shorter protein (PP1a) depends on a -1 ribosomal frameshifting event. The proteins, based on similarity to other coronaviruses, include the papain-like proteinase protein (NSP3), 3C-like proteinase (NSP5), RNA-dependent RNA polymerase (NSP12, RdRp), helicase (NSP13, HEL), endoRNAse (NSP15), 2'-O-Ribose-Methyltransferase (NSP16) and other nonstructural proteins. SARS-CoV-2 nonstructural proteins are responsible for viral transcription, replication, proteolytic processing, suppression of host immune responses and suppression of host gene expression. The RNA-dependent RNA polymerase is a target of antiviral therapies.

Recommended Dilutions

WB	1:500 - 1:1000
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

Immunogen Information

Gene ID
43740578

Swiss Prot
P0DTC2

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 1-180 of coronavirus NSP1 (YP_009742608.1).

Synonyms

Contact

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Product Information

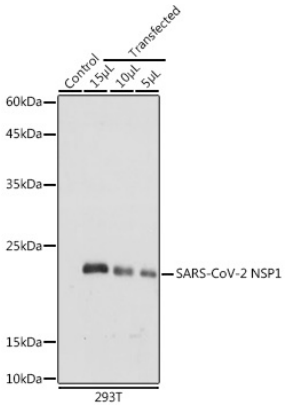
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

Validation Data



Western blot analysis of extracts of normal 293T cells 293T transfected with NSP1 Protein, using SARS-CoV-2 NSP1 Rabbit pAb (A20200) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

Immunoprecipitation analysis of 600 μg extracts of 293T cells using 3 μg SARS-CoV-2 NSP1 antibody (A20200). Western blot was performed from the immunoprecipitate using SARS-CoV-2 NSP1 antibody (A20200) at a dilution of 1:1000.