

SARS-CoV-2 N protein Rabbit pAb

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Catalog # AP94095

Product Information

Application	WB
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46 KDa
Physical State	Liquid
Immunogen	Recombinant SARS-CoV-2 Nucleocapsid Protein
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Virion membrane ; Single-pass type I membrane protein ; Host endoplasmic reticulum-Golgi intermediate compartment membrane ; Single-pass type I membrane protein ; Host cell membrane ; Single-pass type I membrane protein ;Note: Accumulates in the endoplasmic reticulum-Golgi intermediate compartment, where it participates in virus particle assembly. Colocalizes with S in the host endoplasmic reticulum-Golgi intermediate compartment. Some S oligomers are transported to the host plasma membrane, where they may mediate cell-cell fusion.
SUBUNIT	Spike glycoprotein: Homotrimer; each monomer consists of a S1 and a S2 subunit (PubMed:32155444, PubMed:32075877). The resulting peplomers protrude from the virus surface as spikes (By similarity). Interacts with the accessory proteins 3a and 7a.Spike protein S1: Binds to human ACE2.
Post-translational modifications	The cytoplasmic Cys-rich domain is palmitoylated. Spike glycoprotein is digested within host endosomes.Specific enzymatic cleavages in vivo yield mature proteins. The precursor is processed into S1 and S2 by host cell furin or another cellular protease to yield the mature S1 and S2 proteins (PubMed:32155444). Additionally, a second cleavage leads to the release of a fusion peptide after viral attachment to host cell receptor (By similarity). The presence of a furin polybasic cleavage site sets SARS-CoV-2 S apart from SARS-CoV S that possesses a monobasic S1/S2 cleavage site processed upon entry of target cells (PubMed:32155444).Highly decorated by heterogeneous N-linked glycans protruding from the trimer surface.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The SARS-CoV-2 spike (S) protein is the target of vaccine design efforts to end the COVID-19 pandemic. Despite a low mutation rate, isolates with the D614G substitution in the S protein appeared early during the pandemic, and are now the dominant form worldwide. Here, we analyze the D614G mutation in the context of a soluble S ectodomain construct.

Additional Information

Target/Specificity

The cytoplasmic Cys-rich domain is palmitoylated. Spike glycoprotein is digested within host endosomes. Specific enzymatic cleavages in vivo yield mature proteins. The precursor is processed into S1 and S2 by host cell furin or another cellular protease to yield the mature S1 and S2 proteins (PubMed:32155444). Additionally, a second cleavage leads to the release of a fusion peptide after viral attachment to host cell receptor (By similarity). The presence of a furin polybasic cleavage site sets SARS-CoV-2 S apart from SARS-CoV S that possesses a monobasic S1/S2 cleavage site processed upon entry of target cells (PubMed:32155444). Highly decorated by heterogeneous N-linked glycans protruding from the trimer surface.

Dilution

WB=1:500-2000

Format

0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

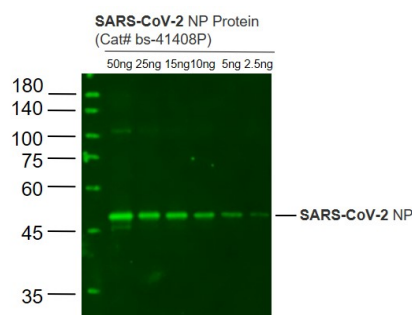
Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

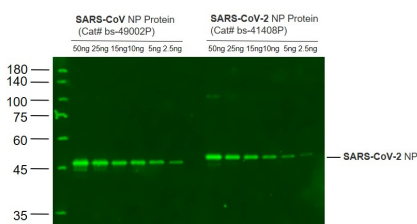
Background

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Images



Sample: Lane 1: SARS-CoV-2 N protein(Cat# bs-41408P) at 50ng Lane 2: SARS-CoV-2 N protein(Cat# bs-41408P) at 25ng Lane 3: SARS-CoV-2 N protein(Cat# bs-41408P) at 15ng Lane 4: SARS-CoV-2 N protein(Cat# bs-41408P) at 10ng Lane 5: SARS-CoV-2 N protein(Cat# bs-41408P) at 5ng Lane 6: SARS-CoV-2 N protein(Cat# bs-41408P) at 2.5ng Primary: Anti- SARS-CoV-2 N protein (AP94095) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 46 kD Observed band size: 46 kD



Sample: Lane 1: SARS-CoV N protein(Cat# bs-49002P) at 50ng Lane 2: SARS-CoV N protein(Cat# bs-49002P) at 25ng Lane 3: SARS-CoV N protein(Cat# bs-49002P) at 15ng Lane 4: SARS-CoV N protein(Cat# bs-49002P) at 10ng Lane 5: SARS-CoV N protein(Cat# bs-49002P) at 5ng Lane 6: SARS-CoV N protein(Cat# bs-49002P) at 2.5ng Lane 7: SARS-CoV-2 N protein(Cat# bs-41408P) at 50ng Lane 8: SARS-CoV-2 N protein(Cat# bs-41408P) at 25ng Lane 9: SARS-CoV-2 N protein(Cat# bs-41408P) at 15ng Lane 10: SARS-CoV-2 N protein(Cat# bs-41408P) at 10ng Lane 11: SARS-CoV-2 N protein(Cat# bs-41408P) at 5ng Lane 12: SARS-CoV-2 N protein(Cat# bs-41408P) at 2.5ng Primary: Anti- SARS-CoV-2 N protein (AP94095) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 46 kD Observed band size: 46 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.