

SARS NC (vN-19): sc-27760

BACKGROUND

Severe acute respiratory syndrome (SARS) coronavirus, a recently emergent infectious agent, shares little homology with previously known coronaviruses with respect to its genes and encoding proteins. Following this pattern, SARS nucleocapsid protein (SARS NC) only weakly resembles analogous proteins of the coronavirus family, and thus estimations of its function prove difficult. In fact, the region encoding SARS NC and other matrix and nucleocapsid proteins more closely resembles avian coronaviruses, while phylogenetic analyses indicate a mammalian origin for the replicase protein. SARS NC expression increases the binding of transcription factors to promoter sequences of c-Fos, ATF2, CREB-1, and FosB, all components of the AP-1 signaling pathway. Other signaling pathways, e.g. the NFκB pathway, are not affected, however, implying that pathway activation by SARS NC is selective, and thus possibly an important target in SARS functional studies.

REFERENCES

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SOURCE

SARS NC (vN-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Nucleocapsid (NC) protein of SARS coronavirus origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-27760 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SARS NC (vN-19) is recommended for detection of Nucleocapsid (NC) protein of SARS coronavirus origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of SARS NC: 46 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.