

COVID-19 Envelope Protein polyclonal antibody

Catalog: BS67278

Host: Rabbit

Reactivity: COVID-19

BackGround:

The cause of the COVID-19 pandemic is a novel and highly pathogenic coronavirus, termed SARS-CoV-2 (severe acute respiratory syndrome coronavirus-2). SARS-CoV-2 is a member of the Coronaviridae family of viruses. The genome of SARS-CoV-2 is relatively large and encodes up to 29 open reading frames (ORFs). These include ORF1a and ORF1b (further processed into 16 non-structural proteins), 9 accessory proteins, and 4 canonical structural proteins: spike (S), envelope (E), membrane (M), and nucleocapsid (N). Envelope protein is transcribed and translated from nested subgenomic RNA of the SARS-CoV-2 genome. Despite the SARS-CoV-2 envelope protein being very small, it possesses a number of functionalities that are critical for viral assembly and release. It is also a major virulence factor, a viroporin that contributes to the host immune mediated cytokine storm. A C-terminal motif on envelope protein binds to and mislocates a number of cell tight junction proteins in lung epithelial cells which may contribute to alveolar damage and acute respiratory distress syndrome (ARDS).

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 27 kDa

Swiss-Prot:

P0DTC4

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB (1/1000 - 1/3000), ELISA: Use at an assay dependent dilution

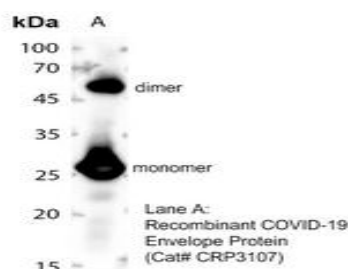
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes COVID-19 Envelope Protein.

DATA:



Western blot analysis of COVID-19 Envelope Protein using Recombinant COVID-19 Envelope Protein (A).

Note:

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

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