Anti-SARS-CoV-2 Envelope (E) Antibody

12/20

CATALOG NO.: **A2261-100 (100 µg)**

BACKGROUND DESCRIPTION: Coronaviruses are large, enveloped, positive-sense RNA viruses that affect humans and a wide variety of mammals. These viruses have a genome length of 30 kb. The 5'-terminal of the viral genome encodes 2 polyproteins that cleave to yield several non-structural proteins. The 3'-terminal encodes 4 structural proteins, namely, Spike (S), Envelope (E), Membrane (M), and Nucleocapsid (N). Coronavirus envelope (E) proteins are short (100 residues) polypeptides that contain at least one transmembrane (TM) domain and a cluster of 2-3 juxtamembrane cysteines. These proteins are involved in viral morphogenesis and tropism, and their absence in some cases leads to aberrant virions or viral attenuation. The Envelope protein increases membrane permeability to ions and plays a central role in virus morphogenesis and assembly. It acts as a viroporin and self-assembles in host membranes forming pentameric protein-lipid pores that allow ion transport. It also plays a role in the induction of apoptosis. Envelope protein also activates the host NLRP3 inflammasome, leading to IL-1 beta overproduction.

ALTERNATE NAMES: 2019-nCoV E protein, 2019-nCoV sM protein, Envelope small membrane protein, Envelope protein

ANTIBODY TYPE: Polyclonal

HOST/ISOTYPE: Rabbit / IgG

IMMUNOGEN: Recombinant SARS-CoV-2 E protein

MOLECULAR WEIGHT: 8 kDa

SPECIFICITY: Recognizes SARS-CoV-2 E protein

FORM: Liquid

FORMULATION: In PBS, pH 7.4, 50% glycerol, 0.05% proclin 300

SPECIES REACTIVITY: Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)

STORAGE CONDITIONS: Store at -20 to -80°C. Avoid repeated freeze/thaw cycles

This information is only intended as a guide. The optimal dilutions must be determined by the user

RELATED PRODUCTS:

Anti-CoV-2 & SARS-CoV NP Mouse IgG2b Antibody (A2064)
Anti-IL-6 receptor (Tocilizumab), Human IgG1 Antibody (A1447)
Anti-SARS-CoV-2 NP Antibody (Clone# 11D5) (A2092)
Anti-ANPEP Antibody (A2100)

FOR RESEARCH USE ONLY! Not to be used on humans.