

Product datasheet for TA592327

OriGene Technologies, Inc.

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S Protein Rabbit Monoclonal Antibody [Clone ID: OTIR2F9]

Product data:

Product Type: Primary Antibodies

Clone Name: OTIR2F9

Applications: ELISA

Recommended Dilution: ELISA 1:5000-10000

Reactivity: SARS-CoV-2

Host: Rabbit

Isotype: IgG

Clonality: Monoclonal

Immunogen: Recombinant fusion protein of SARS-CoV-2 Spike RBD Protein and Virion Surface Domain of

Membrane Protein (M-protein) produced in HEK293

Formulation: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Concentration: 1 mg/ml

Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

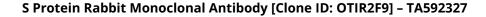
(protein A/G)

Conjugation: Unconjugated

Predicted Protein Size: 34kDa

Gene Name: S Protein

Database Link: Entrez Gene 43740568 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.~ The structural proteins of SARS-CoV-2 include the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M) and the nucleocapsid protein (N). The spike glycoprotein is found on the outside of the virus particle and gives coronavirus viruses their crown-like appearance. This glycoprotein mediates attachment of the virus particle and entry into the host cell. S protein is an important target for vaccine development, antibody therapies and diagnostic antigen-based tests.