

# Anti-SARS-CoV-2 S2 Antibody (Clone# AbF712)

12/20

CATALOG NO.: A2267-100 (100 µg)

**BACKGROUND DESCRIPTION:** The Spike protein (S) is a type I membrane fusion protein required for viral infection and pathogenesis. It is synthesized as a precursor protein between 1200 to 1300 amino acids. The mature protein is a heavily glycosylated trimer with 21-35 glycosylation sites. Upon cleavage by host proteases, it yields 2 subunits, S1 and S2. The S1 subunit consists of 672 amino acids and is divided into 4 domains: an N-terminal domain, a C-terminal domain (also called receptor binding domain, RBD), and 2 subdomains SD1 and SD2. The S2 subunit consists of 588 amino acids and is divided into 4 domains: an N-terminal hydrophobic fusion peptide (FP), 2 heptad repeats (HR1 and HR2), a transmembrane domain (TM), and a cytoplasmic tail. When S1 recognizes and binds to the host receptor, the S2 subunit undergoes a conformational change to bring about the fusion of viral envelope and host cell membrane. Current strategies involve the development of anti-viral drugs to inhibit infection of coronavirus.

**ALTERNATE NAMES:** Spike protein, COVID19, COVID 19, S protein, SARS-CoV S protein, S glycoprotein, E2, Peplomer protein, Spike protein S1, SARS Coronavirus, SARS-CoV-2, SARS CoV 2, 2019-nCoV, Spike protein S2, S2 protein, AbF712

**ANTIBODY TYPE:** Monoclonal

**CLONE:** AbF712

**HOST/ISOTYPE:** Recombinant / Human IgG

**IMMUNOGEN:** Recombinant SARS-CoV-2 S2 protein

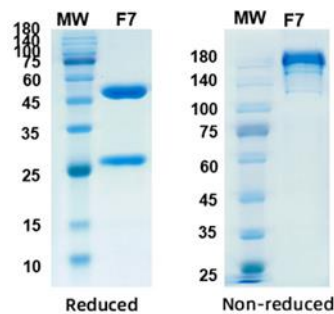
**FORM:** Liquid

**FORMULATION:** In PBS, pH 7.5

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

**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



SDS-PAGE analysis was performed to assess the purity and integrity of Anti-SARS-CoV-2 S2 Antibody (Clone# AbF712)

**RELATED PRODUCTS:**

Anti-CCR5 (Leronlimab), Humanized Antibody (A2181)  
 Anti-BSG Antibody (A2101)  
 Anti-SARS-CoV-2 NP Antibody (Clone# 4G1) (A2093)  
 Anti-IL-17α (Ixekizumab), Humanized Antibody (A2149)

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