

## Anti-SARS-CoV S glycoprotein [4G2] Standard Size Ab01661-11.0

**Isotype and Format:** Human IgG2, Kappa

**Clone Number:** 4G2

**Alternative Name(s) of Target:** Spike protein; S protein; SARS-CoV S protein; S glycoprotein; E2; Peplomer protein; Spike protein S1

**UniProt Accession Number of Target Protein:** P59594

**Published Application(s):** NTRL, ELISA

**Published Species Reactivity:** SARS Coronavirus

**Immunogen:** The original antibody was generated by immunizing a non human transgenic animal XENOMOUSE® IgG2k mice against S1 protein-Ig fragments (ectodomain) of the S Protein (Tor2).

**Specificity:** This antibody specifically binds the amino acids 318-510 in the S1 domain of the SARS-CoV Spike protein (Urbani strain).

**Application Notes:** This antibody inhibits the association of SARS-CoV s protein to the angiotensin-converting enzyme 2 (ACE2) receptor by binding to specific amino acids on the S1 domain of the spike protein of the virus. The originally characterized antibody had a neutralizing titer 200TCID<sub>50</sub> of 0.781 µg/ml (Coughlin et al. 2006) and IC<sub>50</sub> of 4.78 µg/ml when incubated with S12-510- Fc recombinant protein (Coughlin et al. 2009). This antibody can also mildly bind the Sin845, GD01 and GZ0402 mutants of the Urbani 12-510 S1 sequence. (Elshabrawy et al. 2012). Other applications include ELISA.

**Antibody First Published in:** Coughlin et al. Generation and characterization of human monoclonal neutralizing antibodies with distinct binding and sequence features against SARS coronavirus using XenoMouse® Virology 361 (2007) 93-102. [PMID:17161858](#)

**Note on publication:** Describes the generation and characterization of this antibody.

### Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic

procedures for humans or animals.