

# Mouse COVID 19 Spike Protein ACE2 Binding Domain Coronavirus Monoclonal Antibody | anti-COVID-19 antibody

SARS-CoV-2 S-Protein ACE2 Binding Domain

|                              |                      |                                                          |
|------------------------------|----------------------|----------------------------------------------------------|
| CATALOG #<br><b>AAA72832</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Immunocytochemistry, Western Blot</b> |
|------------------------------|----------------------|----------------------------------------------------------|

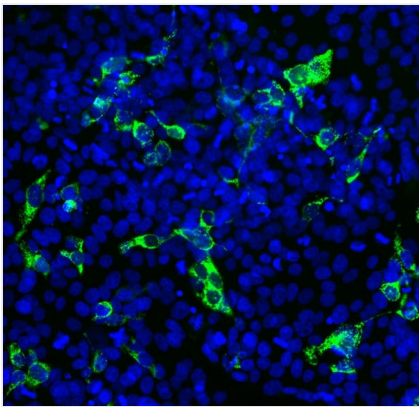
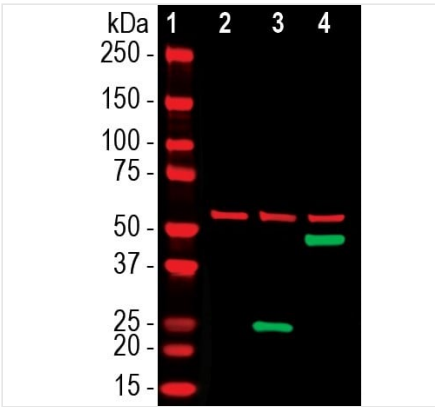
## PRODUCT SYNONYMS

COVID 19 Spike Protein ACE2 Binding Domain Coronavirus; Monoclonal Antibody; SARS-CoV-2 S-Protein ACE2 Binding Domain; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Spike Protein ACE2 Binding Domain; anti-COVID-19 antibody

## PRODUCT SPECIFICATIONS

|                                                    |                                                                                                                                                                                                                      |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | Mouse                                                                                                                                                                                                                |
| Clonality                                          | Monoclonal                                                                                                                                                                                                           |
| Isotype                                            | IgG1                                                                                                                                                                                                                 |
| Clone Number                                       | 2G1                                                                                                                                                                                                                  |
| Purity/Purification                                | Protein G purified culture supernatant                                                                                                                                                                               |
| Form/Format                                        | 100ul in PBS + 50% glycerol + 5 mM sodium azide                                                                                                                                                                      |
| Applicable Applications for anti-COVID-19 antibody | ICC (Immunocytochemistry), WB (Western Blot)                                                                                                                                                                         |
| Species Positively Tested                          | SARS-CoV-2                                                                                                                                                                                                           |
| Immunogen Species                                  | SARS-CoV-2                                                                                                                                                                                                           |
| Immunogen Information                              | Recombinant SARS-CoV2 S-Protein ACE2 binding domain expressed in and purified from E Coli                                                                                                                            |
| Antigen                                            | The antigen is a recombinant SARS-CoV-2 S-Protein construct containing the ACE2 binding domain expressed in and purified from E Coli. The antibody is Protein G purified culture supernatant.                        |
| Preparation and Storage                            | Storage at -20 degree C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20 degree C.<br>Shipping: Blue Ice<br>Country of Origin: USA |

IMAGES



WB (Western Blot)

Western blot showing specific labeling of SARS-CoV-2 at ~ 25k in green in lane 3. Lane 4 shows GFP-tagged SARS-CoV-2 at ~ 50k in green and lane 2 shows no CoV-2 staining in untransfected cells. The red bands show staining with HSP60 as a loading control.

ICC (Immunocytochemistry)

SARS-CoV-2 transfected HEK293 cells showing specific staining of SARS-CoV-2 in green. Nuclei are visualized in blue with DAPI.

ADDITIONAL INFORMATION

Related Product Information for anti-COVID-19 antibody

The novel SARS-coronavirus 2 (SARS-CoV-2) which causes the disease COVID-19 has been shown to utilize the SARS-CoV receptor ACE2 for entry into human cells (Hoffman, M. et al., Cell 2020). The entry of a coronavirus into host cells is mediated by the viral surface-anchored transmembrane spike (S) glycoprotein which is composed of two functional subunits, S1 which binds the receptor and S2 which fuses the membrane (Walls, AC et.al., Cell 2020). S1 contains a receptor-binding domain (RBD) which specifically recognizes ACE2 as its receptor (Wan, Y. et al., 2020).

NCBI AND UNIPROT INFORMATION

|                     |           |
|---------------------|-----------|
| UniProt Accession # | P0DTC2    |
| Molecular Weight    | 25/142kDa |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.