

## Mouse COVID-19 Spike P26S (Gamma Variant) Coronavirus Monoclonal Antibody | anti-COVID-19 antibody

SARS-CoV-2 (COVID-19) Spike P26S (Gamma Variant) Antibody [5G12G11]

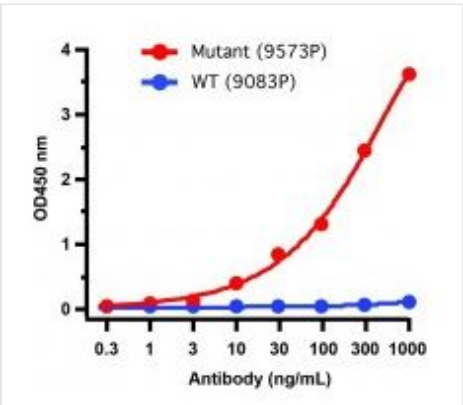
|                              |                      |                                            |
|------------------------------|----------------------|--------------------------------------------|
| CATALOG #<br><b>AAA40958</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Western Blot, ELISA</b> |
|------------------------------|----------------------|--------------------------------------------|

### PRODUCT SYNONYMS

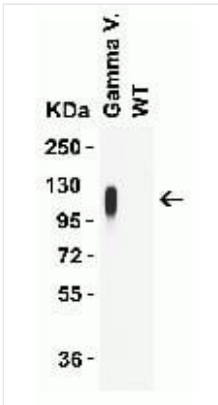
COVID-19 Spike P26S (Gamma Variant) Coronavirus; Monoclonal Antibody; SARS-CoV-2 (COVID-19) Spike P26S (Gamma Variant) Antibody [5G12G11]; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Spike P26S (Gamma Variant); anti-COVID-19 antibody

### PRODUCT SPECIFICATIONS

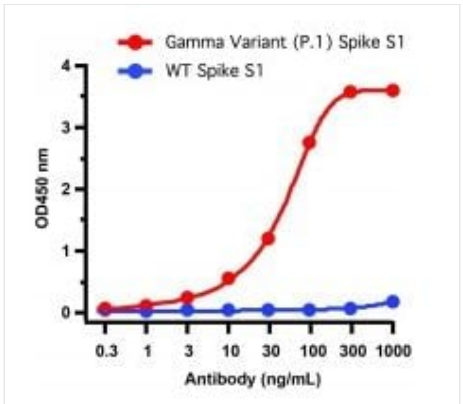
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|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | Mouse                                                                                                                                                                                                                                                                                                  |
| Clonality                                          | Monoclonal                                                                                                                                                                                                                                                                                             |
| Isotype                                            | IgG1                                                                                                                                                                                                                                                                                                   |
| Clone Number                                       | 5G12G11                                                                                                                                                                                                                                                                                                |
| Specificity                                        | It can only detect SARS-CoV-2 Gamma Variant (P.1) Spike S1 protein and does not cross-react with the spike protein of other variants.                                                                                                                                                                  |
| Purity/Purification                                | Anti-SARS-CoV-2 Spike P26S (Gamma Variant) antibody is immunoaffinity chromatography purified IgG.                                                                                                                                                                                                     |
| Form/Format                                        | Liquid                                                                                                                                                                                                                                                                                                 |
| Concentration                                      | 1 mg/mL (varies by lot)                                                                                                                                                                                                                                                                                |
| Applicable Applications for anti-COVID-19 antibody | WB (Western Blot), ELISA                                                                                                                                                                                                                                                                               |
| Homology                                           | Predicted reactivity based on immunogen sequence: SARS-CoV Spike proteins: (36.4%)                                                                                                                                                                                                                     |
| Immunogen                                          | Anti-SARS-CoV-2 Spike P26S (Gamma Variant) antibody was raised against a peptide corresponding to 11 amino acids near the amino terminus of SARS-CoV-2 Gamma variant (P.1) Spike protein.<br>The immunogen is located within the first 50 amino acids of SARS-CoV-2 Gamma variant (P.1) Spike protein. |
| Conjugation                                        | Unconjugated                                                                                                                                                                                                                                                                                           |
| Buffer                                             | SARS-CoV-2 Spike P26S (Gamma Variant) antibody is supplied in PBS containing 0.02% sodium azide.                                                                                                                                                                                                       |
| Preparation and Storage                            | SARS-CoV-2 Spike P26S (Gamma Variant) antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.                          |



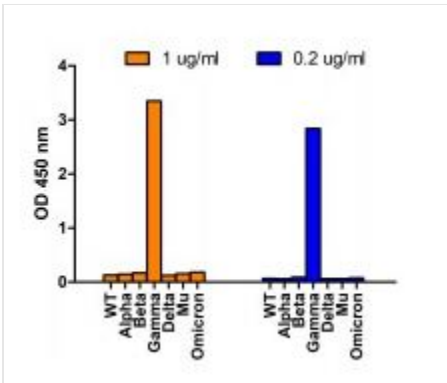
**ELISA**  
Figure 4 ELISA Validation of Gamma Variant Spike S1 Antibodies with Mutant and WT Peptide Coating Antigen: SARS-CoV-2 spike S1 peptides: WT (9083P) and Gamma variant (P.1) (9573P), 1 &#956;g/mL, incubated at 4 &#730;C overnight. Detection Antibodies: SARS-CoV-2 26P antibody, dilution: 0.3-1000 ng/mL, incubated at RT for 1 hr. Secondary Antibodies: Goat anti-mouse HRP at 1:5,000, incubated at RT for 1 hr. SARS-CoV-2 Spike P26S (Gamma Variant) antibody detects Gamma variant spike S1 peptide (26S, 9573P), but not WT peptide



**WB (Western Blot)**  
Figure 3 WB Validation of Gamma Variant Spike S1 Antibodies with SARS-CoV-2 Gamma Variant Spike S1 Protein Loading: 50 ng of SARS-CoV-2 spike S1 proteins, including WT and Gamma variant (P.1). Detection Antibodies: Spike P26S (Gamma Variant) antibody, 9573, 1 &#956;g/mL, incubated at RT for 1 hr. Secondary Antibodies: Goat anti-mouse HRP at 1:5,000, incubated at RT for 1 hr. SARS-CoV-2 Spike P26S (Gamma Variant) antibody specifically detects Gamma variant spike S1 protein, but not WT spike S1 protein.



**ELISA**  
>Figure 2 ELISA Validation of Gamma Variant Spike S1 Antibodies with SARS-CoV-2 Gamma Variant Spike S1 Protein Coating Antigen: SARS-CoV-2 spike S1 proteins WT and Gamma variant (P.1), 1 &#956;g/mL, incubated at 4 &#730;C overnight. Detection Antibodies: SARS-CoV-2 Spike P26S (Gamma Variant) antibody, dilution: 0.3-1000 ng/mL, incubated at RT for 1 hr. Secondary Antibodies: Goat anti-mouse HRP at 1:5,000, incubated at RT for 1 hr. SARS-CoV-2 Spike P26S (Gamma Variant) antibody specifically detects Gamma variant spike S1 protein, but not WT spike S1 protein (10-300).



**Application Data**  
>Figure 1 SARS-Cov-2 Spike P26S (Gamma Variant) Antibodies Specifically Detect Gamma Variant Spike S1 Protein in an ELISA Coating Antigen: SARS-CoV-2 spike S1 proteins WT, alpha variant (B.1.1.7), beta variant (B.1.351), gamma variant (P.1), delta variant (B.1.617.2), mu variant (B.1.621), and omicron variant (B.1.1.529), 1 &#956;g/mL, incubated at 4 &#730;C overnight. Detection Antibodies: SARS-CoV-2 Spike P26S (Gamma Variant) antibody, dilution: 200 and 1000 ng/mL, incubated at RT for 1 hr. Secondary Antibodies: Goat anti-mouse HRP at 1:5,000, incubated at RT for 1 hr.

ADDITIONAL INFORMATION

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-COVID-19 antibody | In January of 2021 a new lineage of SARS-CoV-2, known as P.1 and named Gamma variant, was discovered in Japan and later spread in Brazil. It is considered a VOC (variant of concern). This variant carries 10 mutations in spike protein, including N501Y, E484K and K417T in RBD, which can increase the affinity to the human ACE2 receptor. Enhanced transmission of the Gamma variant (P.1 lineage) was observed globally, which is 3.5 times more contagious as the original one. The Gamma variant affects the effectiveness of COVID19 vaccine and is resistant to neutralization to some extent due to the immune escape E484K mutation. |
| Product Categories/Family for anti-COVID-19 antibody   | Infectious Disease                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

NCBI AND UNIPROT INFORMATION

|             |            |
|-------------|------------|
| NCBI GI #   | 1791269090 |
| NCBI GeneID | 43740568   |

**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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/covid-19-spike-p26s-gamma-variant-coronavirus-antibody-clone-5g12g11-western-blot-elisa/40958>