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# S
# Human Anti-SARS-CoV-2 Spike-RBD Bamlanivimab (LY-CoV555 Neutralizing mAb

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|---|---|---|---|
| **Catalog No.** | CPC534A<br>CPC534B | **Quantity:** | 50 µg<br>100 µg |
| **Alternate Names:** | Spike glycoprotein, S glycoprotein receptor binding domain, S-RBD, LY3819253, LY-CoV555, Bamlanivimab | | |
| **Description:** | Recombinant Human anti-SARS-CoV-2 Spike Protein Receptor Binding Domain, Bamlanivimab Clone LY-CoV555, is expressed in XtenCHO.<br>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). 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). Spike glycoprotein is cleaved into the following 3 chains, Spike protein S1, Spike protein S2, Spike protein S2'. Spike protein S1 attaches the virion to the cell membrane by interacting with host receptor, initiating the infection. Binding to human ACE2 receptor and internalization of the virus into the endosomes of the host cell induces conformational changes in the Spike glycoprotein. Surface glycoprotein is an important target for vaccine development, antibody therapies and diagnostic antigen-based tests. | | |
| **UniProt ID:** | P0DTC2 | | |
| **Origin:** | Derived from a convalescent plasma obtained from a patient with Covid-19 | | |
| **Specificity:** | Recognizes SARS-CoV-2 Spike-RBD protein | | |
| **Source:** | XtenCHO | | |
| **Purity:** | > 95% by reduced and non-reduced SDS-PAGE | | |
| **Isotype:** | Human IgG | | |
| **Clone:** | LY-CoV555 (Bamlanivimab ) | | |
| **Concentration:** | 1.0 mg/ml, lot specific | | |
| **Formulation:** | Sterile-filtered PBS, pH 7.5 preservative free. | | |
| **Purification:** | Protein A affinity chromatography | | |
| **Applications:** | **Neutralization, Functional Assays**<br>**ELISA**<br>**Western blot** | | |
| **Storage & Stability:** | Stable at 2-8°C for 1 week or for up to 1 year at -20°C to -80°C. It is recommended to prepare single-use aliquots of undiluted product and store -20°C to -80°C. **Avoid repeated freeze/thaw cycles.** | | |

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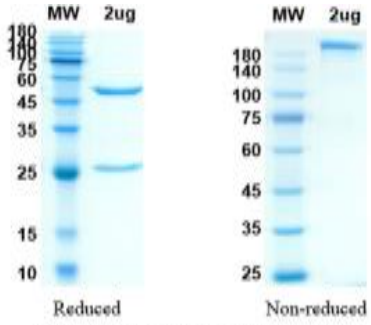


Coomassie blue staining non-reduced and reduced SDS-PAGE analysis



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