# Anti-CoV2RBD-bam-hlgG1

Monoclonal human IgG1 antibody against SARS-CoV-2 Spike (LY-CoV555; Bamlanivimab)

Catalog code: srbdc5-mab1-3

https://www.invivogen.com/sars2-spike-lycov-mab

## For research use only, not for diagnostic or therapeutic use

Version 23L11-MM

## PRODUCT INFORMATION

Contents:

-  $3\,x\,100\,\mu g$  of Anti-CoV2RBD-bam-hlgG1, provided azide-free and lyophilized

Target: SARS-CoV-2 Spike receptor binding domain (S-RBD)

Source: CHO cells

Isotype: Human IgG1

Light chain type: Kappa

Clonality: Monoclonal

**Purification:** By affinity chromatography with protein G **Formulation:** 0.2 µm filtered solution in a sodium phosphate buffer with glycine, saccharose, and stabilizing agents

#### Storage

- Product is shipped at room temperature. Store lyophilized antibody at -20 °C.

- Reconstituted antibody is stable for 1 month when stored at 4°C and for 1 year when aliquoted and stored at -20°C. Avoid repeated freeze-thaw cycles.

#### Quality control

- The complete sequence of the antibody construct has been verified. - Anti-CoV2RBD-bam-hlgG1 has been functionally validated by ELISA using Spike-RBD proteins derived from SARS-CoV-2 variants. - Absence of bacterial contamination (e.g. lipoproteins and endotoxins) has been confirmed using HEK-Blue<sup>™</sup> TLR2 and TLR4 cellular assays.

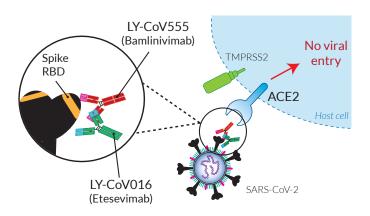
## PRODUCT DESCRIPTION

Anti-CoV2RBD-bam-hIgG1 is derived from 'LY-CoV555', a recombinant SARS-CoV-2 neutralizing monoclonal antibody (mAb)<sup>1</sup>. Anti-CoV2RBD-bam-hIgG1 features a variable region that is reactive against the receptor binding domain (RBD) of the Spike protein of SARS-CoV-2, and the constant region of the human IgG1 (hIgG1) isotype. Anti-CoV2RBD-bam-hIgG1 was generated by recombinant DNA technology, produced in CHO cells, and purified by affinity chromatography with protein G.

#### SARS-CoV-2 Spike RBD mAb (LY-CoV555; Bamlanivimab)

The SARS-CoV-2 Spike receptor-binding domain (S-RBD) is an important candidate for both treatment and vaccination strategies in the context of COVID-19. LY-CoV555 (aka Bamlanivimab) was generated using serum from a convalescent patient<sup>1</sup>. This mAb has high-affinity for the SARS-CoV2 S-RBD and blocks its binding to the ACE2 receptor on target cells, thus displaying potent neutralizing activity<sup>1</sup>. Prophylactic administration of LY-CoV555 protects against SARS-CoV-2 infection in non-human primates<sup>1</sup>. Treatment using LY-CoV555 has been authorized under emergency use for COVID-19 outpatients<sup>2,3</sup>. In addition, a clinical trial (NCT04427501) is investigating the efficacy of LY-CoV555 in

TECHNICAL SUPPORT InvivoGen USA (Toll-Free): 888-457-5873 InvivoGen USA (International): +1 (858) 457-5873 InvivoGen Europe: +33 (0) 5-62-71-69-39 InvivoGen Asia: +852 3622-3480 E-mail: info@invivogen.com



combination with another neutralizing mAb, LY-CoV016. Of note, LY-CoV555 and LY-CoV016 bind two distinct but overlapping regions of the SARS-CoV2 S-RBD<sup>4</sup>.

#### APPLICATIONS

Anti-CoV2RBD-bam-hlgG1 can be used either alone or in antibody cocktails to assess its/their neutralization efficiency against SARS-CoV-2 variants. This tool can allow the monitoring of SARS-CoV-2 variant escape.

1. Jones B.E. et al., 2021. The neutralizing antibody, LY-CoV555, protects against SARS-CoV-2 infection in nonhuman primates. Sci Transl Med 13(593), eabf1906(2021). 2. Chen P. et al., 2020. SARS-CoV-2 Neutralizing Antibody LY-CoV555 in Outpatients with Covid-19. N Engl J Med. 384(3):229-237. 3. https://www.fda.gov/media/145801/download. 4. Taylor P.C. et al., 2021. Neutralizing monoclonal antibodies for treatment of COVID-19. Nat Rev Immunol. 21(6):382-393.

## METHODS

#### Anti-CoV2RBD-bam-hlgG1 resuspension (100 µg/ml)

<u>Note:</u> Ensure you see the lyophilized pellet before resuspension. - Add 1 ml of sterile water to the vial and gently pipette until completely resuspended.

- Prepare aliquots and store at 4°C or -20°C until required.

## RELATED PRODUCTS

Product	Catalog Code
Anti-CoV2RBD-ete-hlgG1 Anti-CoV2RBD-cas-hlgG1 Anti-CoV2RBD-imd-hlgG1 A549-hACE2-TMPRSS2 <b>Note:</b> For more products related to COVID-11	srbdc6-mab1-3 srbdc3-mab1-3 srbdc4-mab1-3 a549-hace2tpsa 9 research please visit our
<b>Note:</b> For more products related to COVID-19 research, please visit our website <u>https://www.invivogen.com/covid-19</u>	

