## Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) (Trehalose free) (MALS verified)

Cotolog # CANI MADAA

# ACCO

#### Source

Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) (S1N-M13A1) is a chimeric monoclonal antibody combining the constant domains of the human IgG1 molecule with mouse variable regions. The variable region was obtained from a mouse immunized with purified recombinant SARS-CoV-2 Spike S1 Protein.

#### Isotype

Human IgG1/kappa

#### Specificity

This product can recognize SARS-CoV-2 and SARS-CoV Spike protein RBD domain. No cross-reactivity is detected with Spike protein RBD domain of other coronaviruses, including MERS-CoV, HCoV-229E, HCoV-NL63, HCoV-OC43 and HCoV-HKU1.

#### Application

This antibody is developed for detecting the SARS-CoV-2 Spike Protein in cell supernatant or SARS-CoV-2 virus in vitro by sandwich ELISA assay.

#### Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

#### **SDS-PAGE**



Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

#### Formulation

Supplied as 0.2 µm filtered solution in PBS, pH7.4 .

Contact us for customized product form or formulation.

Storage

#### Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- For long term storage, the product is stable for up to 3 years at -70°C from date of receipt;
- For short term storage, the product is stable for up to 12 months at 2-8°C from date of receipt.

#### Shipping

This product is supplied and shipped as sterile liquid solution with dry ice, please inquire the shipping cost.



The purity of Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) (Cat. No. S1N-M13A1) is more than 90% and the molecular weight of this protein is around 135-155 kDa verified by SEC-MALS. Report

#### **Bioactivity-ELISA**

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### Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) (Trehalose free) (MALS verified)



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Immobilized SARS-CoV-2 S1 protein, His Tag (Cat. No. <u>S1N-C52H2</u>) at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) (Cat. No. <u>S1N-M13A1</u>) with a linear range of 0.078-1.25 ng/mL (QC tested).

#### Background

It's been reported that Coronavirus can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

#### **Clinical and Translational Updates**

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.



