Datasheet for ABIN6953206

anti-SARS-CoV-2 Spike S1 antibody

5 Images

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Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
Reactivity:	SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Alpha, SARS CoV-2 Epsilon, SARS CoV-2 Gamma, SARS CoV-2 Beta
Host:	Human
Clonality:	Chimeric
Conjugate:	This SARS-CoV-2 Spike S1 antibody is un-conjugated
Application:	ELISA, Neutralization (Neut)

Product Details

Clone:	AM122
Isotype:	IgG1
Cross-Reactivity (Details):	The cross-reactivity with other coronaviruses has not been tested yet.
Characteristics:	Anti-SARS-CoV-2 Spike S1 Antibody, Chimeric MAb 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.
Sterility:	0.22 µm filtered

Target Details

Target:	SARS-CoV-2 Spike S1

Target Details

Abstract:	SARS-CoV-2 Spike S1 Products
Target Type:	Viral Protein
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.

Application Details

Application Notes:	It is recommended to use antibody (ABIN6953206) and (ABIN6953207) as a pair set to detect SARS-CoV-2 Spike S1 in ELISA or serological assays.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4 . Normally trehalose is added as protectant before lyophilization.
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	For long term storage, the product should be stored at lyophilized state at -20°C or lower. This product is stable after storage at: 4-8°C for 12 months in lyophilized state, -70°C for 3 years under sterile conditions after reconstitution.

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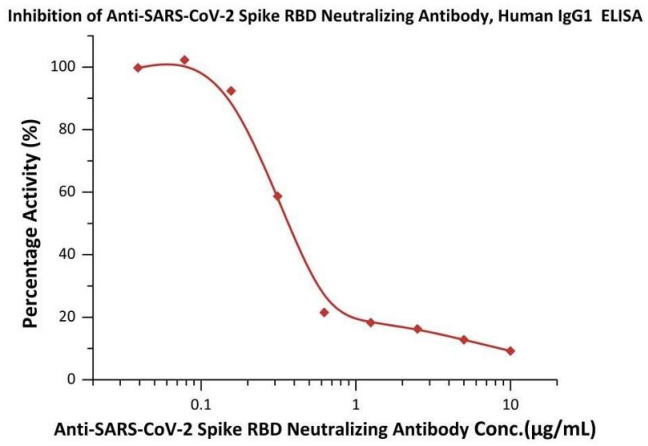
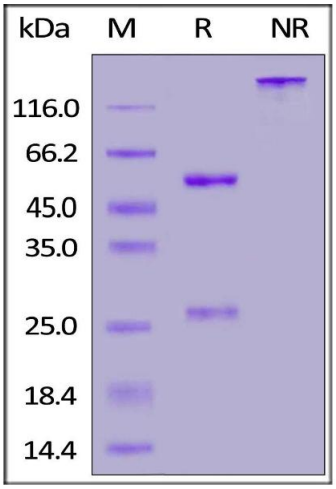


ELISA

Image 1. Immobilized Human ACE2, His Tag (ABIN6952641) at 2 µg/mL (100 µL/well) can bind pre-mixed increasing concentrations of Anti-SARS-CoV-2 Neutralizing Antibody, Mouse IgG1 (ABIN6953206) and 0.4 µg/mL (50 µL/well) Biotinylated S protein RBD, His,Avitag (ABIN6952456) with a half maximal inhibitory concentration (IC50) of 0.32 µg/mL (Routinely tested).



SDS-PAGE

Image 2. Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (ABIN6953206) 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%.

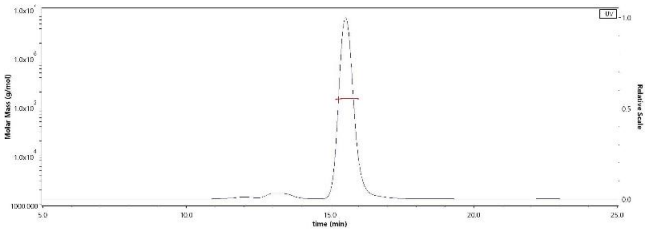


Image 3. The purity of Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM122) (ABIN6953206) was more than 90% and the molecular weight of this protein is around 135-150 kDa verified by SEC-MALS.

Please check the product details page for more images. Overall 5 images are available for ABIN6953206.