



Source

Anti-BCMA Neutralizing Antibody, Mouse IgG1 is a Mouse monoclonal antibody recombinantly expressed from HEK293 cells.

Species

Mouse

Isotype

Mouse IgG1 | Mouse Kappa

Conjugate

Unconjugated

Antibody Type

Recombinant Monoclonal

Reactivity

Human

Immunogen

BCMA.

Specificity

The product is specific for Human BCMA Protein extracellular, and can inhibit the interaction between BCMA and BAFF (IC₅₀= 4.877 µg/mL), BCMA and APRIL (IC₅₀= 4.624 µg/mL). It also has cross reactivity with Cynomolgus & Mouse BCMA protein.

Application

Application	Recommended Usage
ELISA	0.5-80 ng/mL

Purity

>95% as determined by SDS-PAGE.

Purification

Protein A purified/ Protein G purified

Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

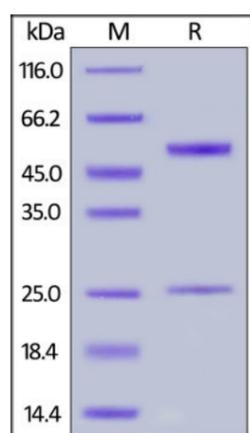
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- 4-8°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



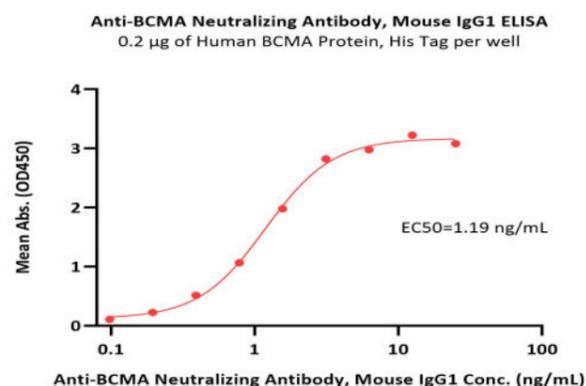
Discounts, Gifts,
and more!



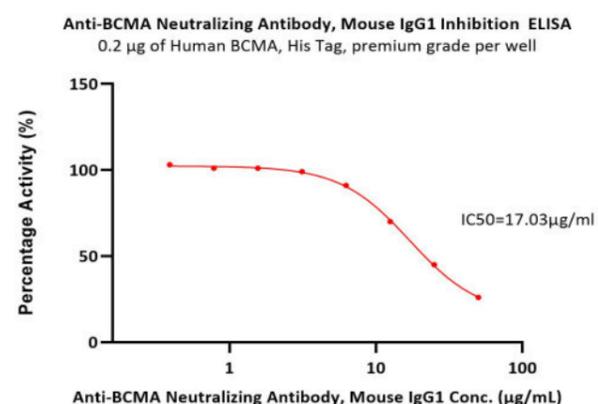


Anti-BCMA Neutralizing Antibody, Mouse IgG1 on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

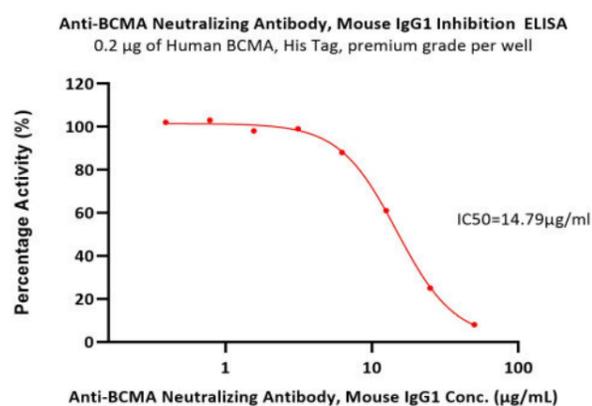
Bioactivity-ELISA



Immobilized Human BCMA Protein, His Tag (Cat. No. BCA-H522y) at 2 µg/mL (100 µL/well) can bind Anti-BCMA Neutralizing Antibody, Mouse IgG1 (Cat. No. BCA-M43) with a linear range of 0.2-6 ng/mL (QC tested).

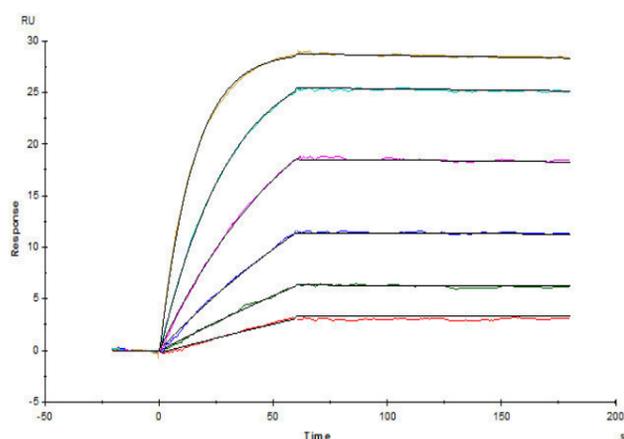


Immobilized Human BCMA, His Tag (Cat. No. BCA-H522y) at 2 µg/mL (100 µL/well) can bind pre-mixed increasing concentrations of Anti-BCMA Neutralizing Antibody, Mouse IgG1 (Clone: AM43, Cat. No. BCA-M43) and 0.05 µg/mL (100 µL/well) Biotinylated Human APRIL, Fc,Avitag (Cat. No. APL-H82F5) with a half maximal inhibitory concentration (IC50) of 17.03 µg/mL (Routinely tested).



Immobilized Human BCMA, His Tag (Cat. No. BCA-H522y) at 2 µg/mL (100 µL/well) can bind pre-mixed increasing concentrations of Anti-BCMA Neutralizing Antibody, Mouse IgG1 (Clone: AM43, Cat. No. BCA-M43) and 0.01 µg/mL (100 µL/well) Biotinylated Human BAFF, His,Avitag (Cat. No. BAF-H82Q2) with a half maximal inhibitory concentration (IC50) of 14.79 µg/mL (Routinely tested).

Bioactivity-SPR



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Anti-BCMA Neutralizing Antibody, Mouse IgG1 (recommended for neutralizing assay)

Catalog # BCA-M43



Anti-BCMA Neutralizing Antibody, Mouse IgG1 (Clone: AM43, Cat. No. BCA-M43) captured on CM5 chip via anti-mouse antibodies surface can bind Human BCMA, His Tag (Cat. No. BCA-H522y) with an affinity constant of 0.388 nM as determined in a SPR assay (Biacore T200) (Routinely tested).

Background

Tumor necrosis factor receptor superfamily member 17 (TNFRSF17) is also known as B-cell maturation protein (BCMA), CD antigen CD269, which is a member of the TNF-receptor superfamily. TNFRSF17 contains one TNFR-Cys repeat. TNFRSF17 is expressed in mature B-cells, but not in T-cells or monocytes. TNFRSF17 is receptor for TNFSF13B/BLyS/BAFF and TNFSF13/APRIL. TNFRSF17 promotes B-cell survival and plays a role in the regulation of humoral immunity. TNFRSF17 can activate NF-kappa-B and JNK.

Clinical and Translational Updates

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