

Synonym

TNFRSF17,CD269,BCM,BCMA

Source

Human BCMA, Mouse IgG2a Fc Tag(BCA-H5253) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ala 54 (Accession # [Q02223-1](#)).
Predicted N-terminus: Met 1

Molecular Characterization

BCMA(Met 1 - Ala 54) Q02223-1	mFc(Glu 98 - Lys 330) P01863
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This protein carries a mouse IgG2a Fc tag at the C-terminus.
The protein has a calculated MW of 32.8 kDa. The protein migrates as 35-42 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.
>90% as determined by SEC-MALS.

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

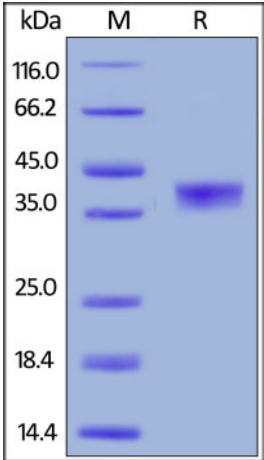
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

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:

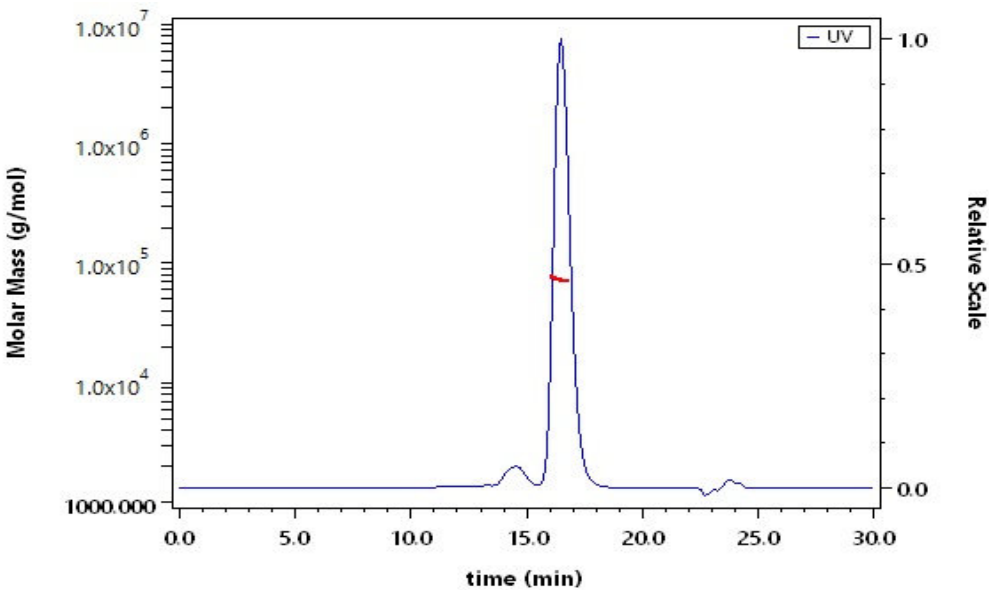
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human BCMA, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

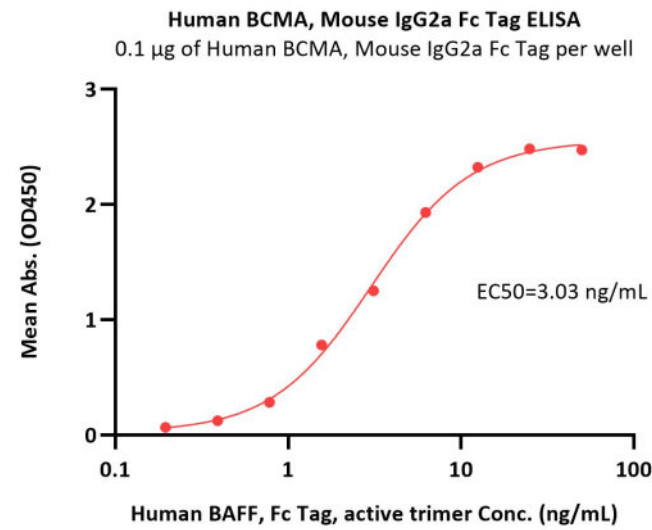
SEC-MALS



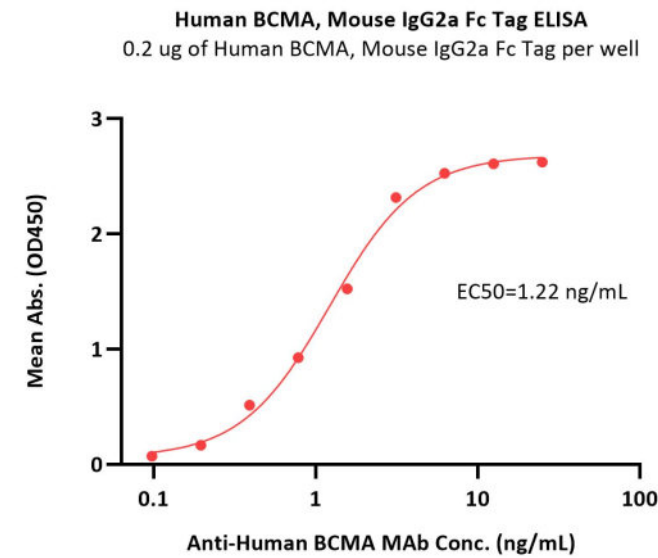
The purity of Human BCMA, Mouse IgG2a Fc Tag (Cat. No. BCA-H5253) is more than 90% and the molecular weight of this protein is around 65-85 kDa verified by SEC-MALS.
[Report](#)

Bioactivity-ELISA

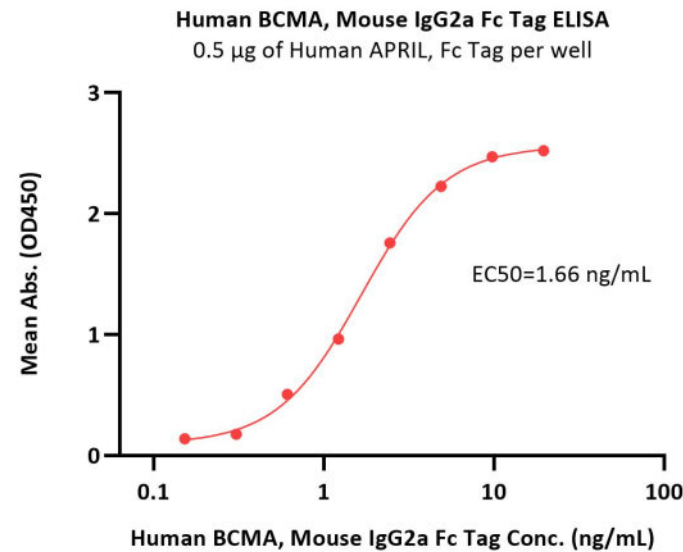




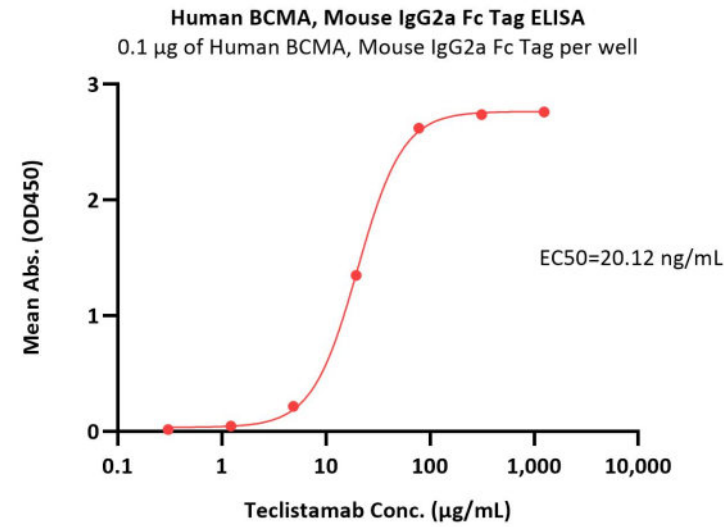
Immobilized Human BCMA, Mouse IgG2a Fc Tag (Cat. No. BCA-H5253) at 1 µg/mL (100 µL/well) can bind Human BAFF, Fc Tag, active trimer (Cat. No. BAF-H5261) with a linear range of 0.2-6 ng/mL (QC tested).



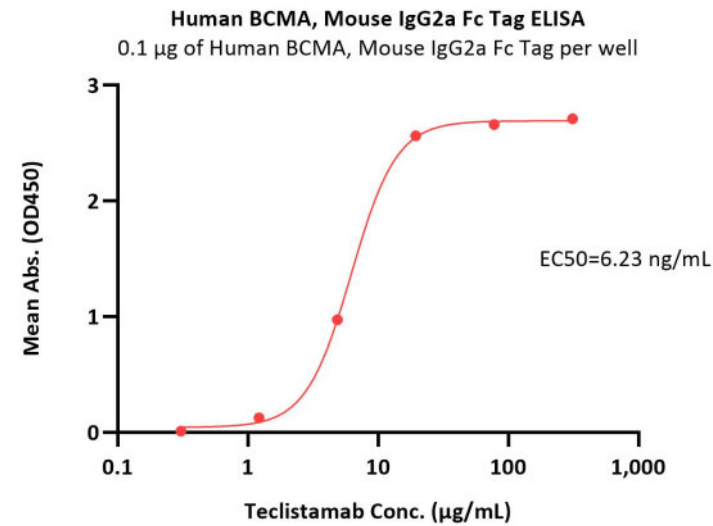
Immobilized Human BCMA, Mouse IgG2a Fc Tag (Cat. No. BCA-H5253) at 2 µg/mL (100 µL/well) can bind Anti-Human BCMA MAb with a linear range of 0.2-3 ng/mL (Routinely tested).



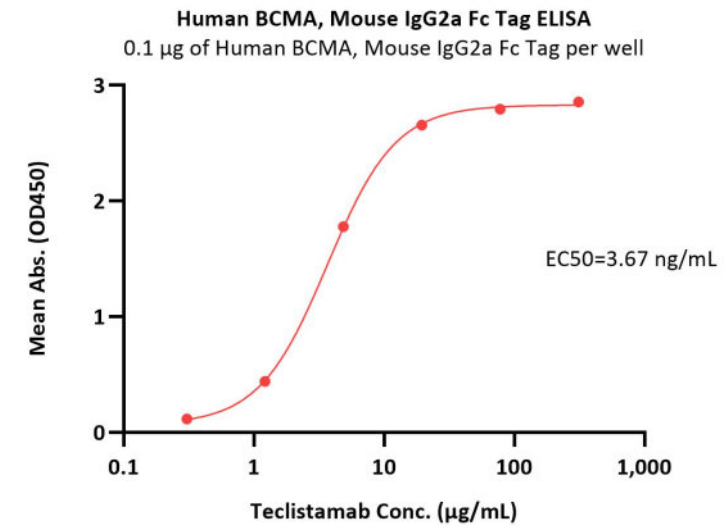
Immobilized Human APRIL, Fc Tag at 5 µg/mL (100 µL/well) can bind Human BCMA, Mouse IgG2a Fc Tag (Cat. No. BCA-H5253) with a linear range of 0.2-2 ng/mL (Routinely tested).



Immobilized Human BCMA, Mouse IgG2a Fc Tag (Cat. No. BCA-H5253) at 1 µg/mL, add increasing concentrations of Teclistamab and then add Biotinylated Human CD3E&CD3G Heterodimer Protein, His,Avitag&Tag Free (Cat. No. CDG-H82W3) at 1 µg/mL. Detection was performed using HRP-conjugated Streptavidin (Acro, Cat. No. STN-NH913) with sensitivity of 20.12 ng/mL (Routinely tested).



Immobilized Human BCMA, Mouse IgG2a Fc Tag (Cat. No. BCA-H5253) at 1 µg/mL, add increasing concentrations of Teclistamab and then add Biotinylated Human CD3 epsilon, His,Avitag (Cat. No. CDE-H82E1) at 0.2 µg/mL.



Immobilized Human BCMA, Mouse IgG2a Fc Tag (Cat. No. BCA-H5253) at 1 µg/mL, add increasing concentrations of Teclistamab and then add HRP-





Detection was performed using HRP-conjugated Streptavidin (Acro, Cat. No. STN-NH913) with sensitivity of 6.23 ng/mL (Routinely tested).

Human CD3E & CD3D Heterodimer Protein, His Tag&Tag Free (Cat. No. CDD-HR2W3) at 1 µg/mL, with sensitivity of 3.67 ng/mL (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.

