

Human BCMA / TNFRSF17 Protein, His Tag, premium grade

Catalog # BCA-H522y



Synonym

TNFRSF17, CD269, BCM, BCMA

Source

Human BCMA, His Tag, premium grade (BCA-H522y) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ala 54 (Accession # [Q02223-1](#)).

Predicted N-terminus: Met 1

It is produced under our rigorous quality control system that incorporates a comprehensive set of tests including sterility and endotoxin tests. Product performance is carefully validated and tested for compatibility for cell culture use or any other applications in the early preclinical stage.

MBS-C004 is the GMP version of this BCA-H522y. These two proteins display indistinguishable performance profiles, thereby ensuring a seamless transition for end users from early preclinical stag to later clinical phases.

Molecular Characterization

BCMA(Met 1 - Ala 54) Q02223-1	Poly-his
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[Other Tags and Version](#) [Biotin & Other Labeled Version](#)

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 7.8 kDa. The protein migrates as 12 kDa and 14-18 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

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

Sterility

Negative

Mycoplasma

Negative

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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:

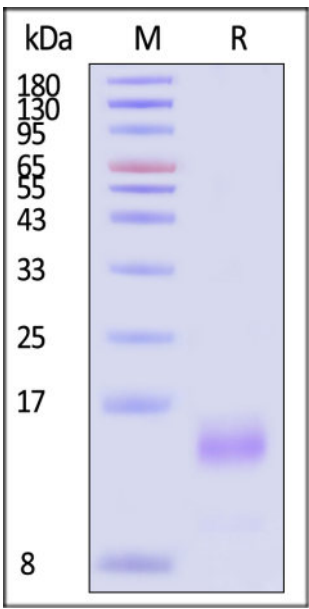
- -20°C to -70°C for 24 months in lyophilized state;
- -70°C for 12 months under sterile conditions after reconstitution.

ACRO Quality Management System

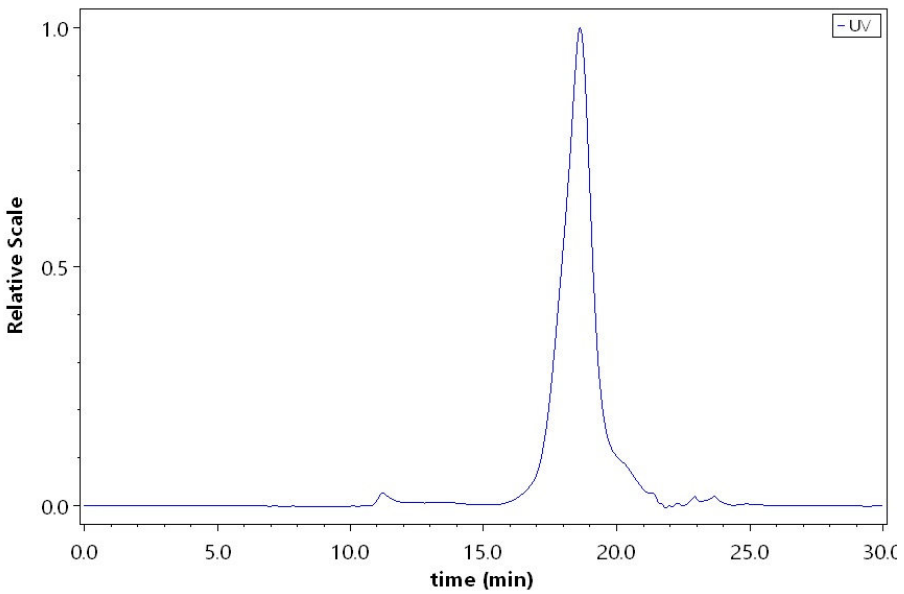
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE

SEC-HPLC

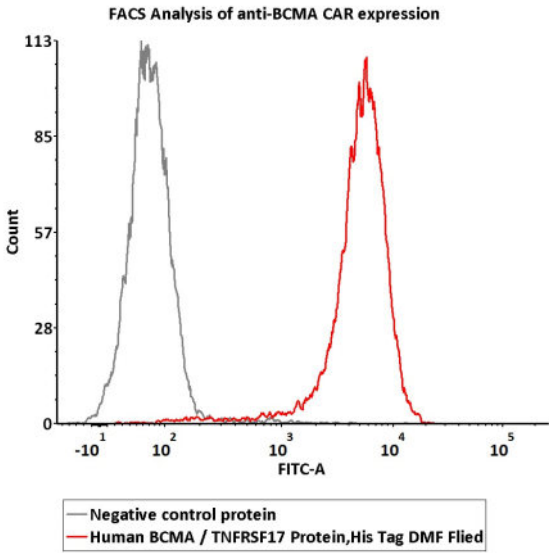


Human BCMA, His Tag, premium grade on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).



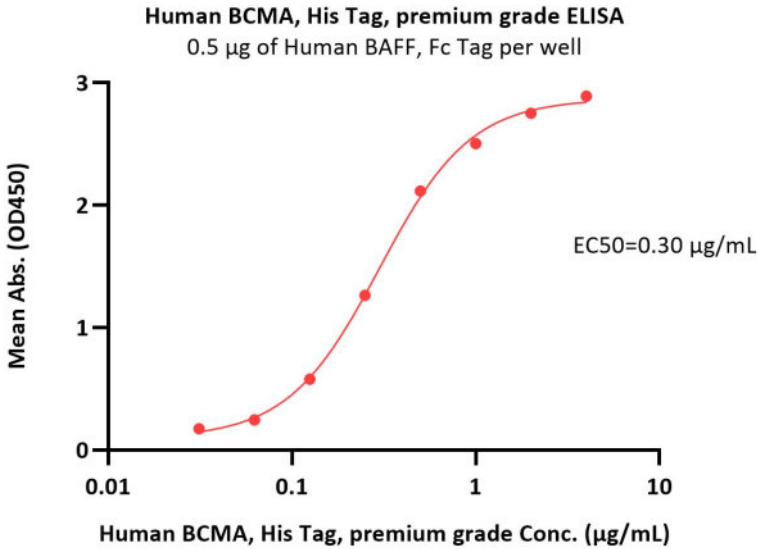
The purity of Human BCMA, His Tag, premium grade (Cat. No. BCA-H522y) was greater than 80% as determined by SEC-HPLC.

Bioactivity-FACS

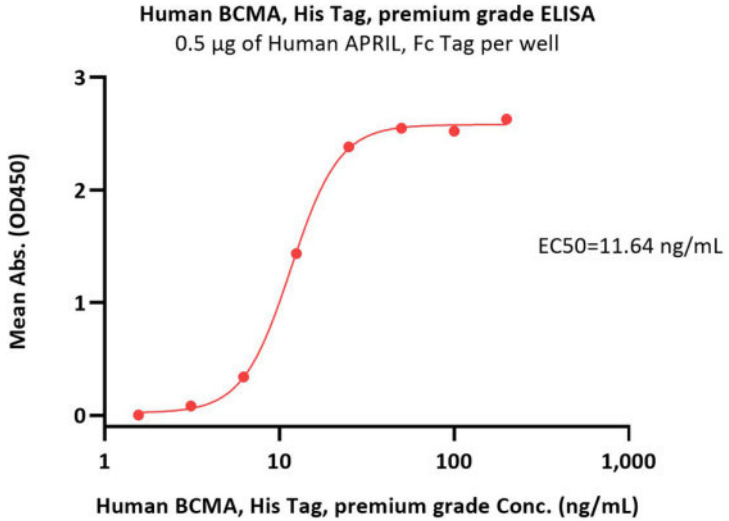


2e5 of BCMA-CAR-293 cells transfected with anti-BCMA-scFv were stained with 100 μ L of 0.3 μ g/mL of Human BCMA, His Tag, premium grade (Cat. No. BCA-H522y) and negative control protein respectively, washed and then followed by FITC anti-6xHis tag antibody and analyzed with FACS (Routinely tested).

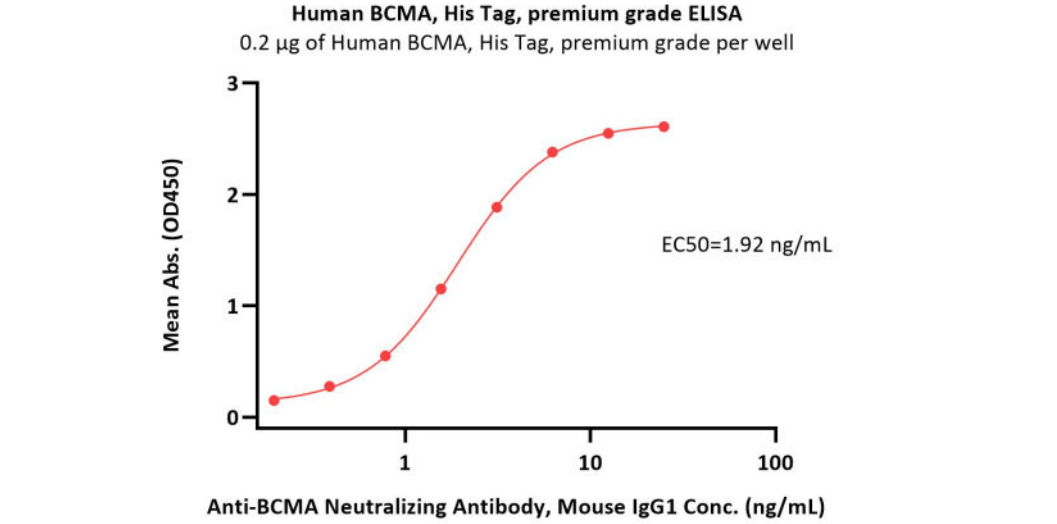
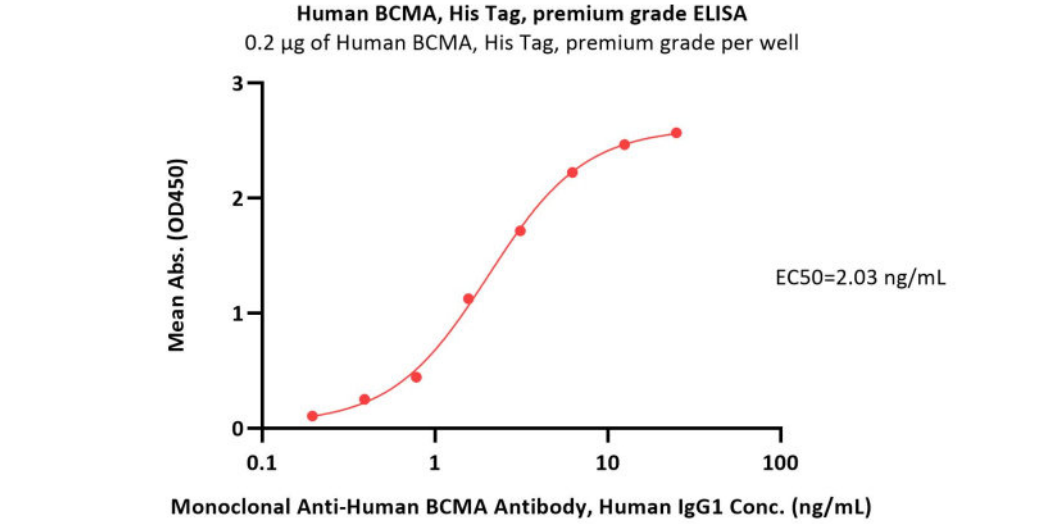
Bioactivity-ELISA



Immobilized Human BAFF, Fc Tag at 5 μ g/mL (100 μ L/well) can bind Human BCMA, His Tag, premium grade (Cat. No. BCA-H522y) with a linear range of 0.031-0.5 μ g/mL (QC tested).



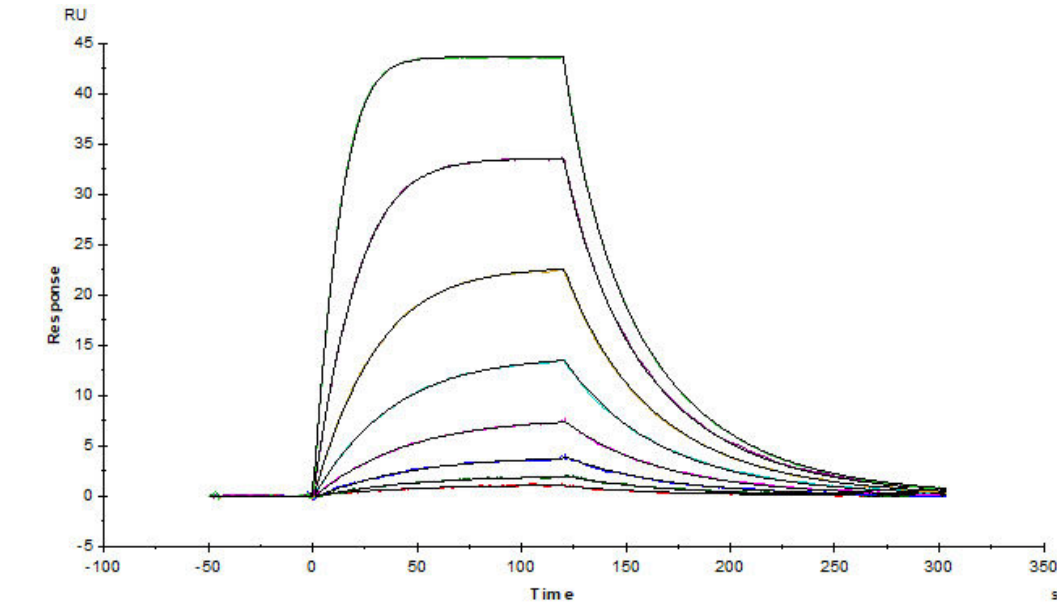
Immobilized Human APRIL, Fc Tag at 5 μ g/mL (100 μ L/well) can bind Human BCMA, His Tag, premium grade (Cat. No. BCA-H522y) with a linear range of 6-25 ng/mL (Routinely tested).



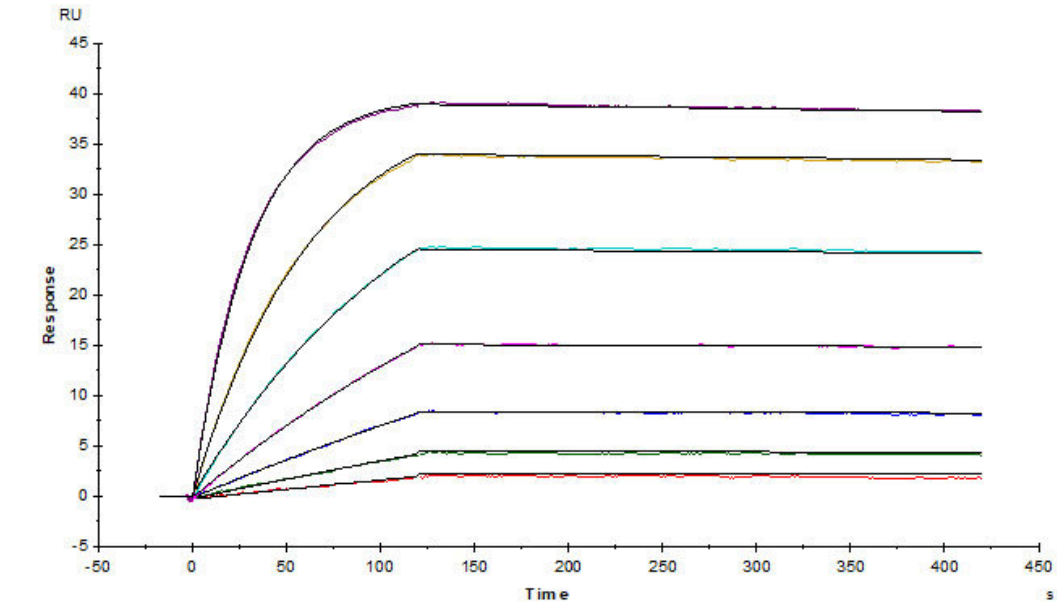
Immobilized Human BCMA, His Tag, premium grade (Cat. No. BCA-H522y) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-Human BCMA Antibody, Human IgG1 with a linear range of 0.2-3 ng/mL (Routinely tested).

Immobilized Human BCMA, His Tag, premium grade (Cat. No. BCA-H522y) at 2 µg/mL (100 µL/well) can bind Anti-BCMA Neutralizing Antibody, Mouse IgG1 with a linear range of 0.2-3 ng/mL (Routinely tested).

Bioactivity-SPR

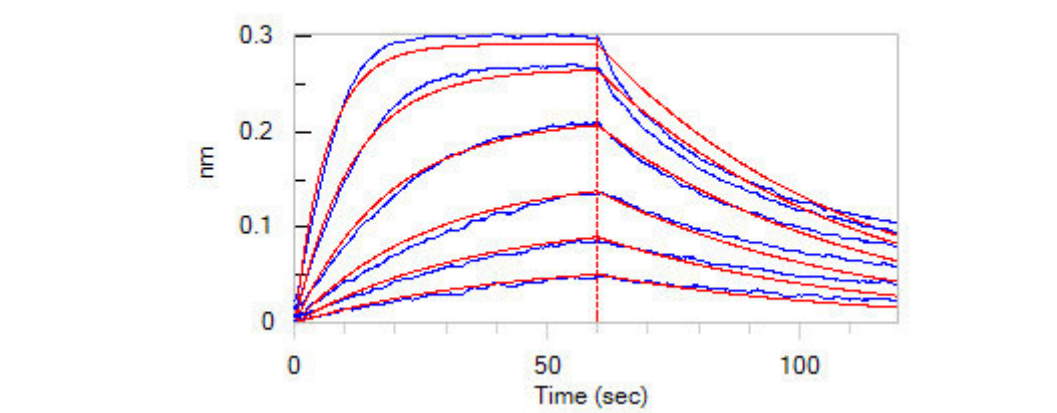


Anti-Human BCMA MAb (human IgG1) captured on CM5 chip via Anti-Human IgG Fc antibodies surface, can bind Human BCMA, His Tag, premium grade (Cat. No. BCA-H522y) with an affinity constant of 13.0 nM as determined in a SPR assay (Biacore T200) (Routinely tested).

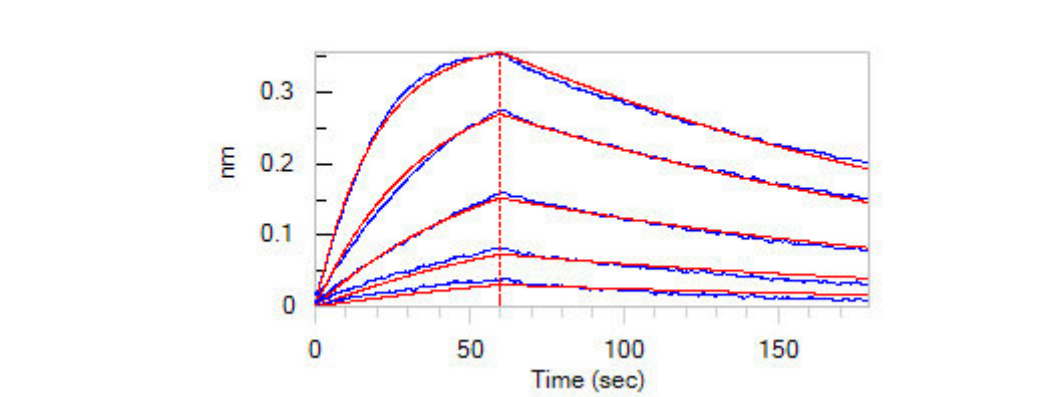


Anti-BCMA Neutralizing Antibody, Mouse IgG1 captured on CM5 chip via anti-mouse antibodies surface can bind Human BCMA, His Tag, premium grade (Cat. No. BCA-H522y) with an affinity constant of 0.234 nM as determined in a SPR assay (Biacore T200) (Routinely tested).

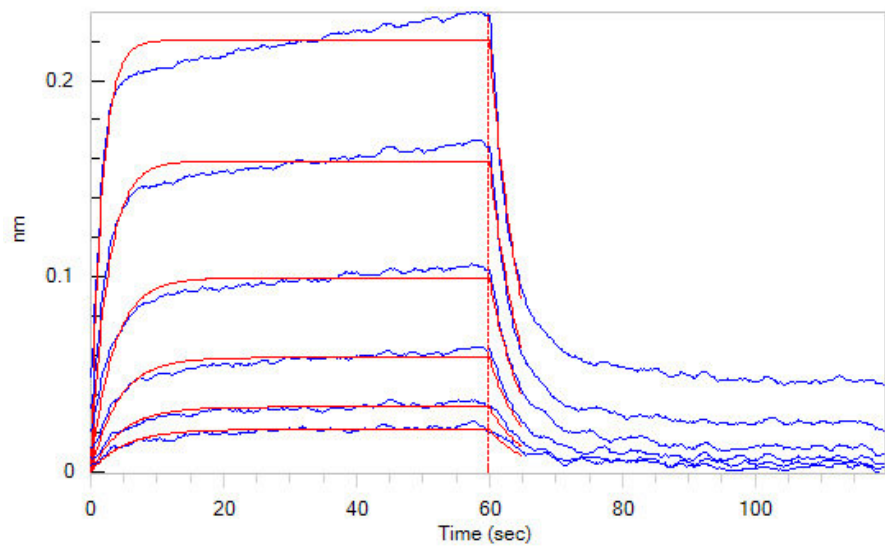
Bioactivity-BLI



Loaded Anti-Human BCMA MAb (human IgG1) on Protein A Biosensor, can bind Human BCMA, His Tag, premium grade (Cat. No. BCA-H522y) with an affinity constant of 29.1 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



Loaded Human APRIL, Fc Tag on Protein A Biosensor, can bind Human BCMA, His Tag, premium grade (Cat. No. BCA-H522y) with an affinity constant of 10.9 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



Loaded Human BAFF, Fc Tag on Protein A Biosensor, can bind Human BCMA, His Tag, premium grade (Cat. No. BCA-H522y) with an affinity constant of 0.64 μ M as determined in BLI assay (ForteBio Octet Red96e) (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.

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