

Human BCMA / TNFRSF17 (P33S) Protein, His Tag (HPLC & SPR verified)

Catalog # BCA-H52H4



BIOSYSTEMS
Acro

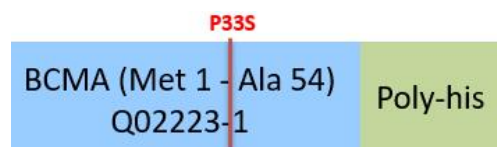
Synonym

TNFRSF17, CD269, BCM, BCMA

Source

Human BCMA (P33S) Protein, His Tag (BCA-H52H4) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ala 54 (Accession # [Q02223-1](#) (P33S)).

Molecular Characterization



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

The protein has a calculated MW of 7.9 kDa. The protein migrates as 13 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

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.

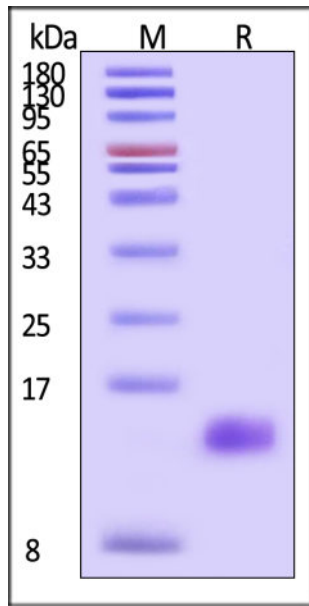
This product is stable after storage at:

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

ACRO Quality Management System

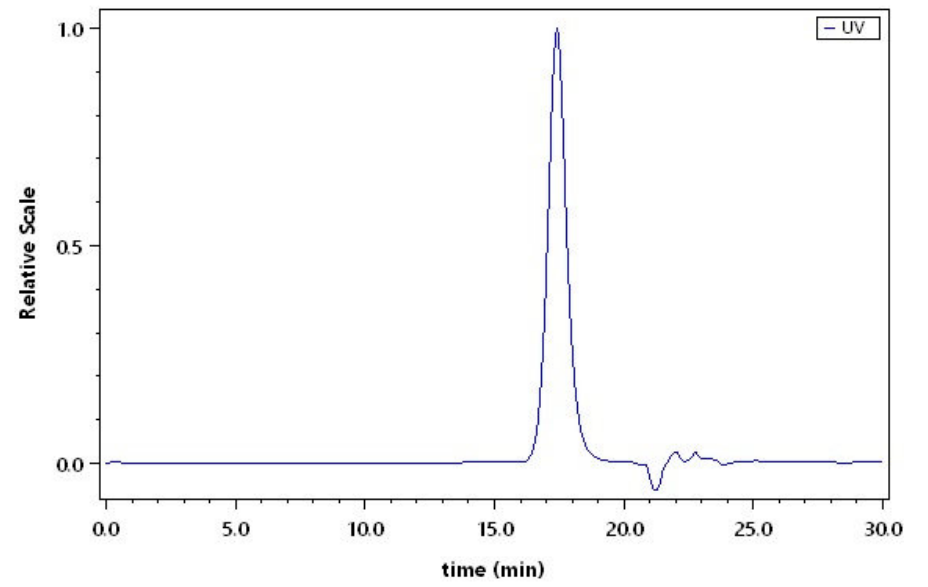
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



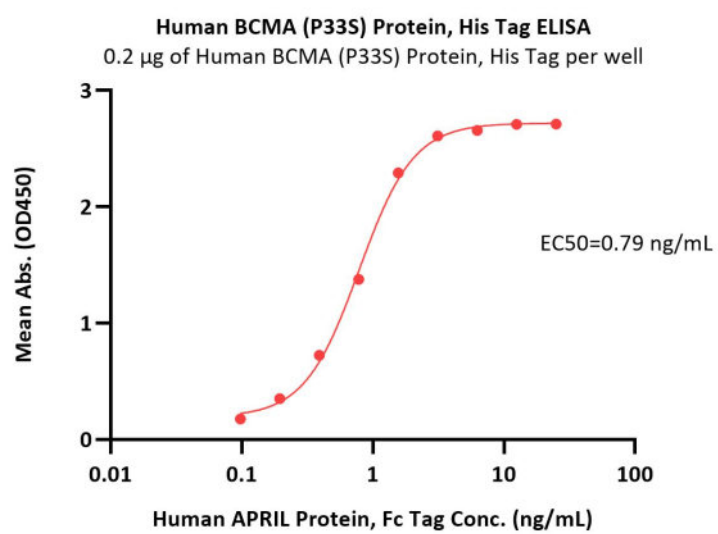
Human BCMA (P33S) Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-HPLC

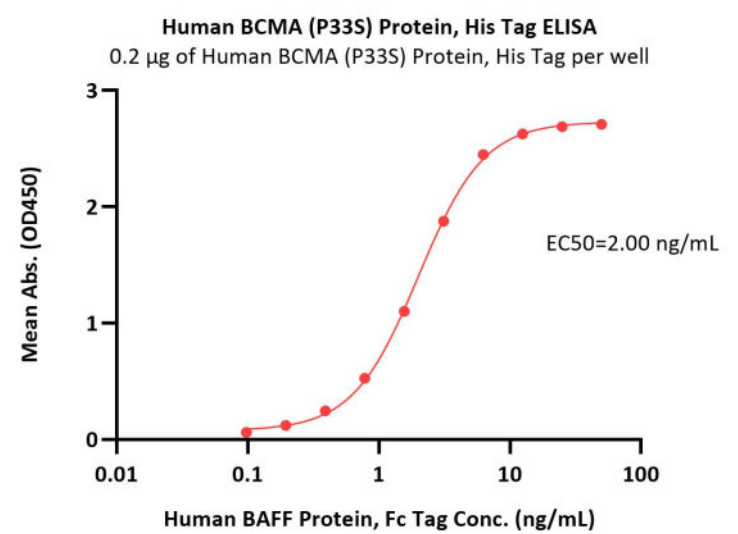


The purity of Human BCMA (P33S) Protein, His Tag (Cat. No. BCA-H52H4) was greater than 90% as determined by SEC-HPLC.

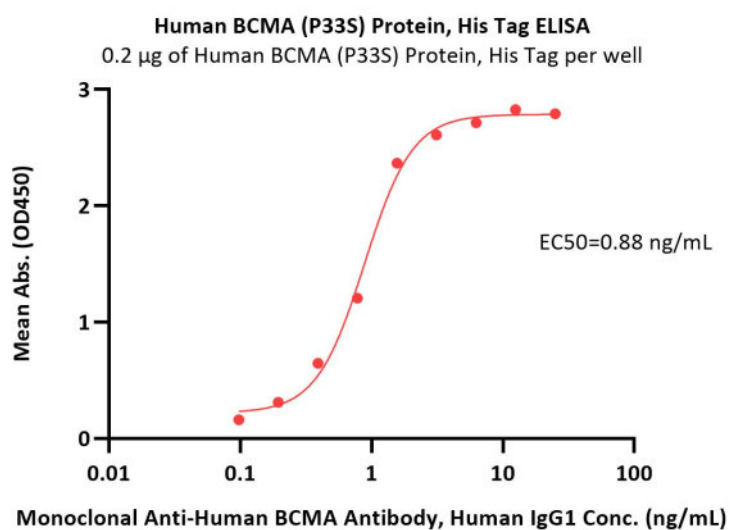
Bioactivity-ELISA



Immobilized Human BCMA (P33S) Protein, His Tag (Cat. No. BCA-H52H4) at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Human APRIL Protein, Fc Tag (Cat. No. APL-H5263) with a linear range of 0.1-2 ng/mL (QC tested).

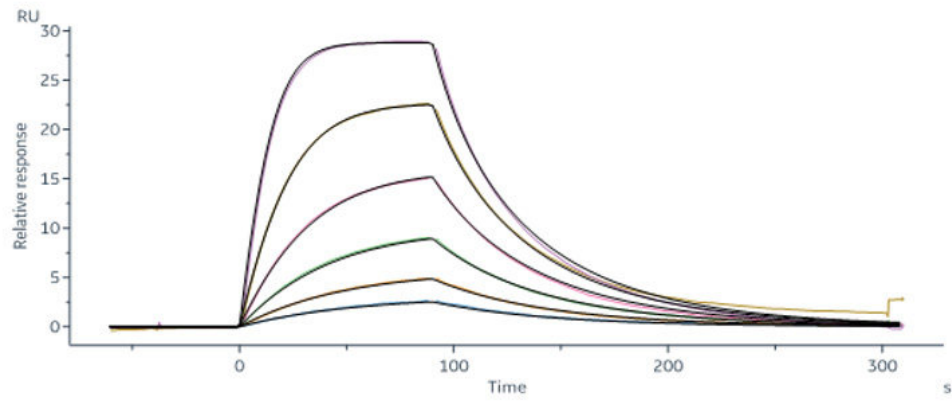


Immobilized Human BCMA (P33S) Protein, His Tag (Cat. No. BCA-H52H4) at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Human BAFF Protein, Fc Tag (Cat. No. BAF-H5261) with a linear range of 0.1-6 ng/mL (Routinely tested).



Immobilized Human BCMA (P33S) Protein, His Tag (Cat. No. BCA-H52H4) at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Monoclonal Anti-Human BCMA Antibody, Human IgG1 with a linear range of 0.1-2 ng/mL (Routinely tested).

Bioactivity-SPR



Monoclonal Anti-Human BCMA Antibody, Human IgG1 captured on Protein A Chip can bind Human BCMA (P33S) Protein, His Tag (Cat. No. BCA-H52H4) with an affinity constant of 9.3 nM as determined in a SPR assay (Biacore 8K) (QC 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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