

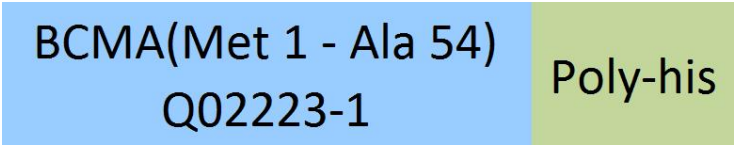
Synonym

TNFRSF17,CD269,BCM,BCMA

Source

FITC-Labeled Human BCMA, His Tag (Cat. No. BCA-HF2H1) is expressed from human HEK293 cells. It contains AA Met 1 - Ala 54 (Accession # [Q02223-1](#)). It is the FITC labeled form of Human BCMA, His Tag (Cat. No. BCA-H522y).
Predicted N-terminus: Met 1

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.
The protein has a calculated MW of 7.79 kDa. The protein migrates as 10 kDa and 14-16 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Conjugate

FITC
Excitation source: 488 nm spectral line, argon-ion laser
Excitation Wavelength: 488 nm
Emission Wavelength: 535 nm

Labeling

The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.

Protein Ratio

The FITC to protein molar ratio is 1-3.

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.

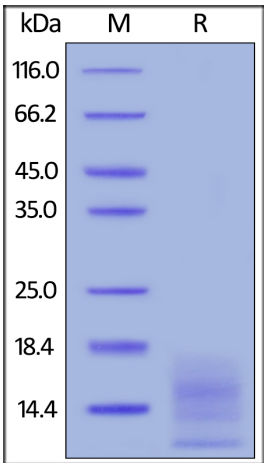
Storage

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



FITC-Labeled Human BCMA / TNFRSF17 Protein, His Tag

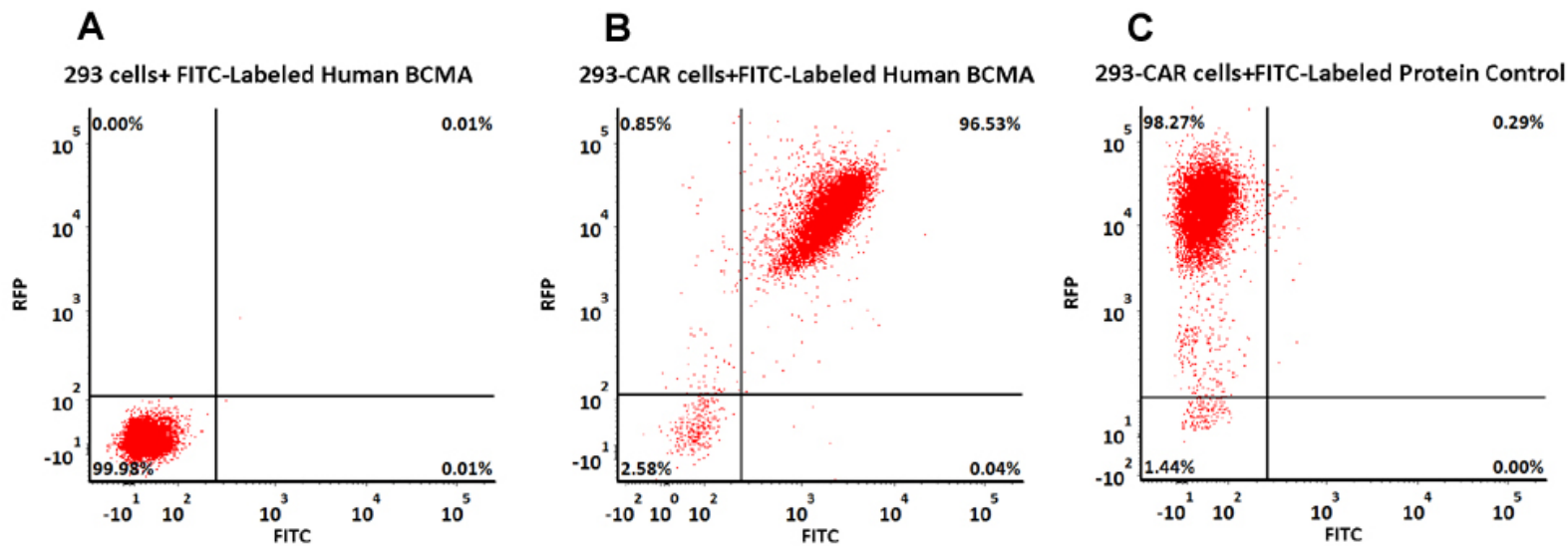
Catalog # BCA-HF2H1



FITC-Labeled Human BCMA, 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%.

Evaluation of CAR expression

FACS Analysis of Anti-BCMA CAR Expression



293 cells were transfected with anti-BCMA-scFv and RFP tag. 2e5 of the cells were stained with B. FITC-Labeled Human BCMA, His Tag (Cat. No. BCA-HF2H1, 1 µg/ml) and C. FITC-labeled protein control. A. Non-transfected 293 cells and C. FITC-labeled protein control were used as negative control. RFP was used to evaluate CAR (anti-BCMA-scFv) expression and FITC was used to evaluate the binding activity of FITC-Labeled Human BCMA, His Tag (Cat. No. BCA-HF2H1) (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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