



## Synonym

TNFRSF17, CD269, BCM, BCMA

## Source

Alexa Fluor 555-Labeled Human BCMA, His Tag (BCA-HA2H7) is produced via conjugation of AF555 to Human BCMA, His Tag with a new generation site-specific technology under Star Staining labeling platform. Human BCMA, His Tag 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**      Poly-his

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

## Conjugate

AF555

Excitation Wavelength: 561 nm

Emission Wavelength: 572 nm

## 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:

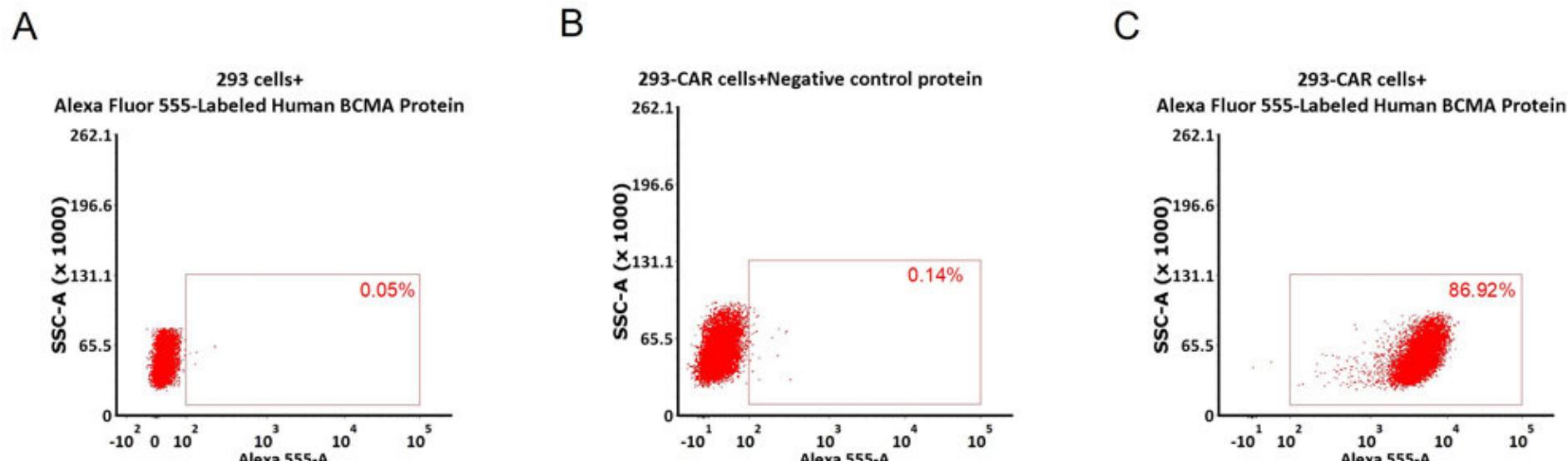
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**Star Staining** fluorescent-labeled products are developed by a new-generation site-specific labeling technology with Star Standard quality at ACROBiosystems

- ★ Using new-generation site-specific labeling technology to maintain natural bioactivity.
- ★ No non-specific binding to non-transduced PBMCs.
- ★ High specificity and sensitivity verified by flow cytometry.
- ★ High homogeneity and high batch-to-batch consistency.

## Evaluation of CAR expression

### FACS Analysis of Anti-BCMA CAR Expression



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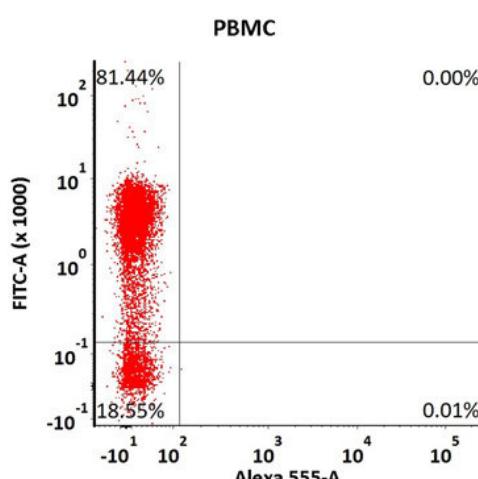
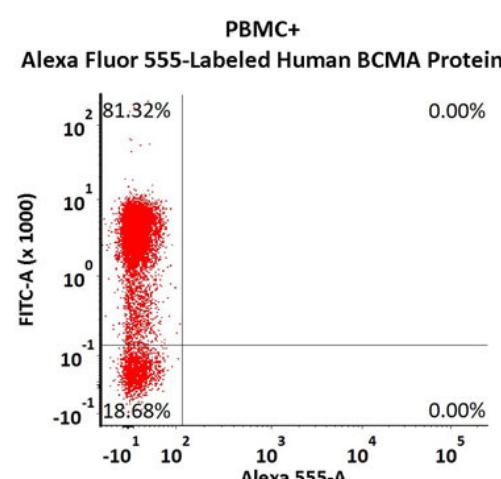


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5e5 of anti-BCMA CAR-293 cells were stained with 100  $\mu$ L of 3  $\mu$ g/mL of Alexa Fluor 555-Labeled Human BCMA, His Tag (Cat. No. BCA-HA2H7) and negative control protein respectively (Fig. C and B), and non-transfected 293 cells were used as a control (Fig. A). Alexa 555 signal was used to evaluate the binding activity (QC tested).

FACS Analysis of Non-specific binding to PBMCs

**A****B**

5e5 of PBMCs were stained with Alexa Fluor 555-Labeled Human BCMA, His Tag (Cat. No. BCA-HA2H7) and anti-CD3 antibody, washed and then analyzed with FACS. FITC signal was used to evaluate the expression of CD3+T cells in PBMCs, and Alexa 555 signal was used to evaluate the non-specific binding activity to PBMCs (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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