



**Synonym**

TNFRSF17,CD269,BCM,BCMA

**Source**

Alexa Fluor 488-Labeled Human BCMA, His Tag (BCA-HA2H8) is produced via conjugation of AF488 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
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 22.6 kDa.

**Conjugate**

AF488

Excitation Wavelength: 488 nm

Emission Wavelength: 517 nm

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% 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

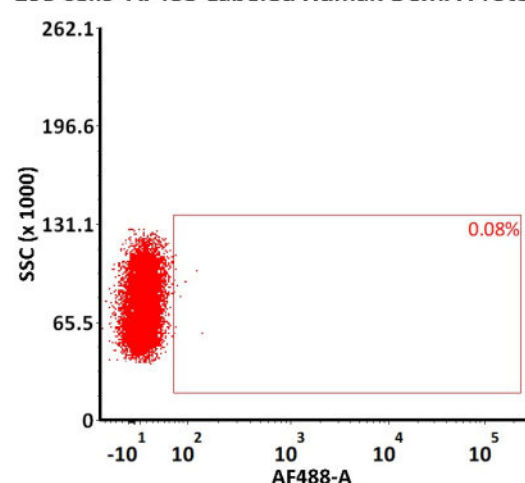
- ★ Using new-generation site-specific labeling technology to maintain natural bioactivity.
- ★ High specificity and sensitivity verified by flow cytometry.
- ★ No non-specific binding to non-transduced PBMCs.
- ★ High homogeneity and high batch-to-batch consistency.

**Evaluation of CAR expression**

FACS Analysis of Anti-BCMA CAR Expression

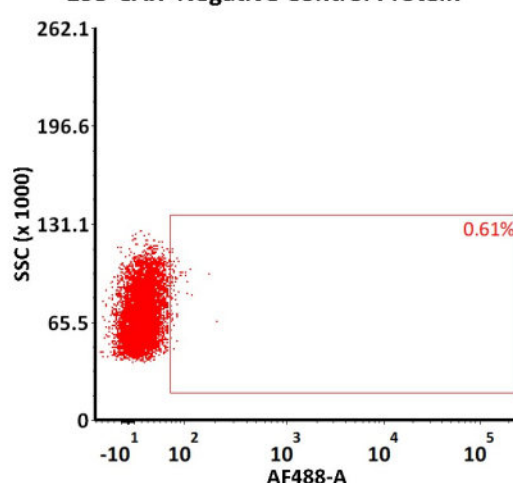
A

293 cells+AF488-Labeled Human BCMA Protein



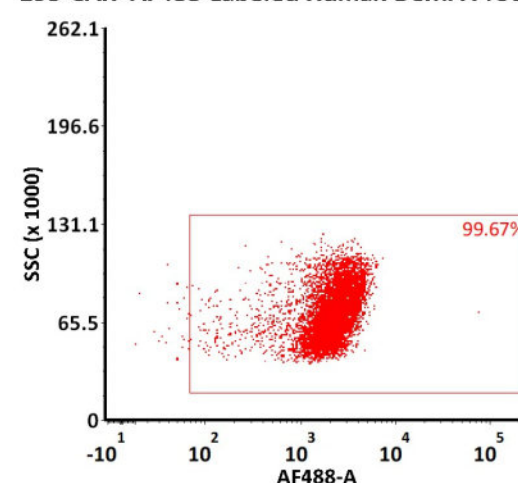
B

293-CAR+Negative Control Protein



C

293-CAR+AF488-Labeled Human BCMA Protein



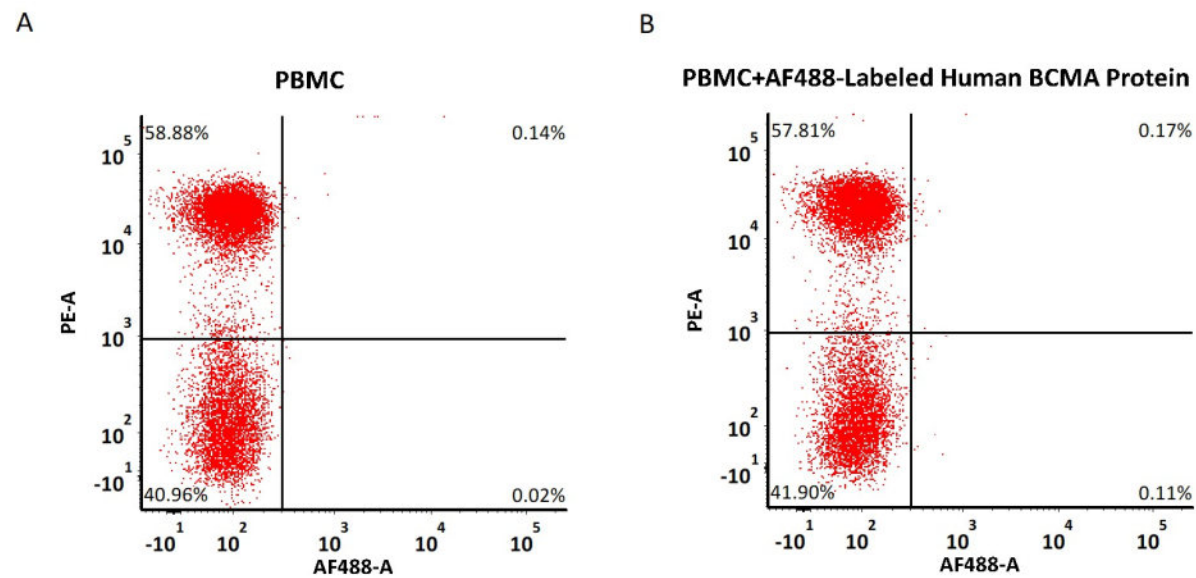
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5e5 of anti-BCMA CAR-293 cells were stained with 100 µL of 1 µg/mL of AF488-Labeled Human BCMA, His Tag (Cat. No. BCA-HA2H8) and negative control protein respectively (Fig. C and B), and non-transfected 293 cells were used as a control (Fig. A). AF488 signal was used to evaluate the binding activity (QC tested).

FACS Analysis of Non-specific binding to PBMCs



5e5 of PBMCs were stained with AF488-Labeled Human BCMA, His Tag (Cat. No. BCA-HA2H8) and anti-CD3 antibody, washed and then analyzed with FACS. PE signal was used to evaluate the expression of CD3<sup>+</sup> T cells in PBMCs, and AF488 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.

## Clinical and Translational Updates

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