



## Synonym

TNFRSF17,CD269,BCM,BCMA

## Source

APC-Labeled Human BCMA, His Tag (BCA-HA2H4) is produced via conjugation of APC 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.

The protein has a calculated MW of 20.2 kDa.

## Conjugate

APC

Excitation Wavelength: 640 nm

Emission Wavelength: 661 nm

## Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, 0.2% BSA, 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  $-20^{\circ}\text{C}$  or lower.

*Please protect from light and avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

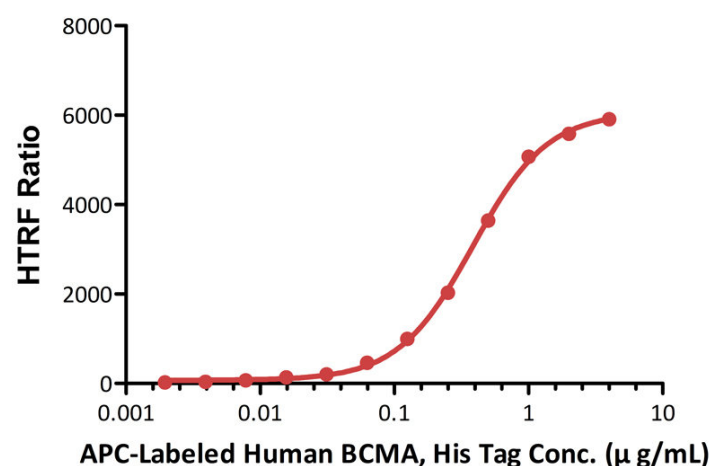
**Star Staining** fluorescent-labeled products are developed by a new-generation site-specific labeling technology with Star Standard quality at ACROBiosystems

- ★ 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.

## Bioactivity-HTRF

### APC-Labeled Human BCMA, His Tag HTRF

10ng/well of Monoclonal Anti-Human BCMA Antibody, Human IgG1



Mix the 10 ng /well of Monoclonal Anti-Human BCMA Antibody, Human IgG1 with the Donor PAb Anti Human IgG-Eu cryptate Human IgG1, incubated with the Acceptor APC-Labeled Human BCMA, His Tag (Cat. No. BCA-

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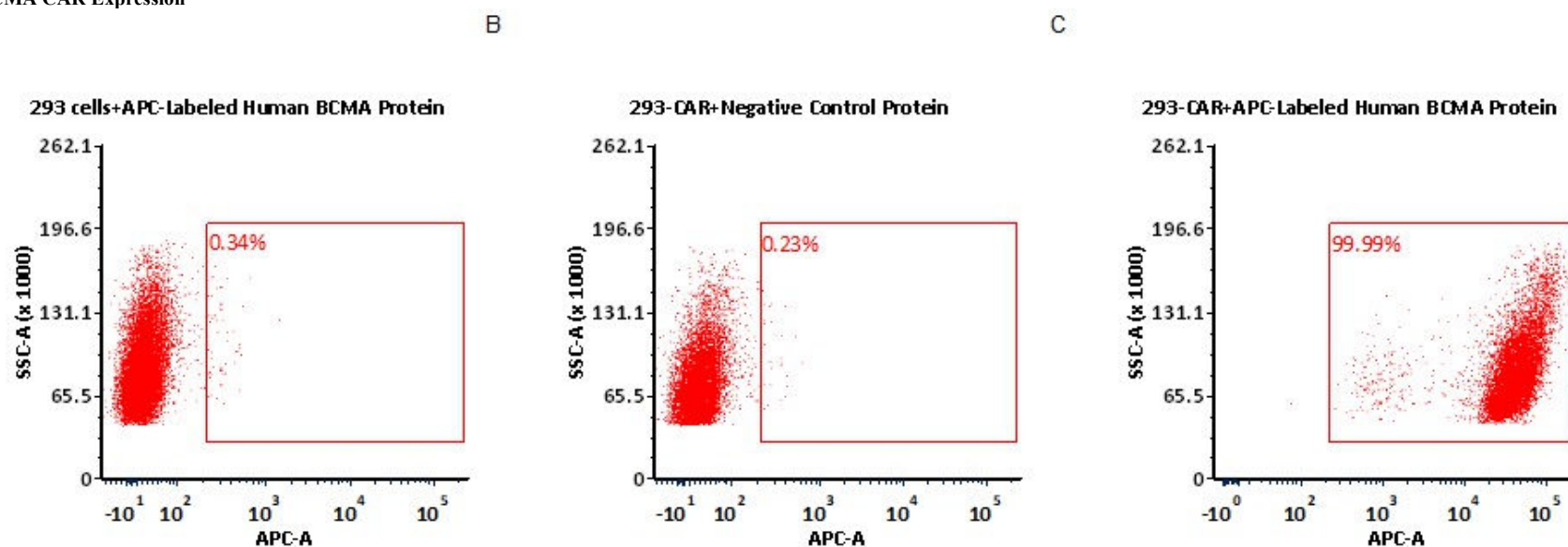




HA2H4) at increasing concentration. Detection was performed with the EC50 of 0.3848  $\mu\text{g/mL}$  (Routinely tested).

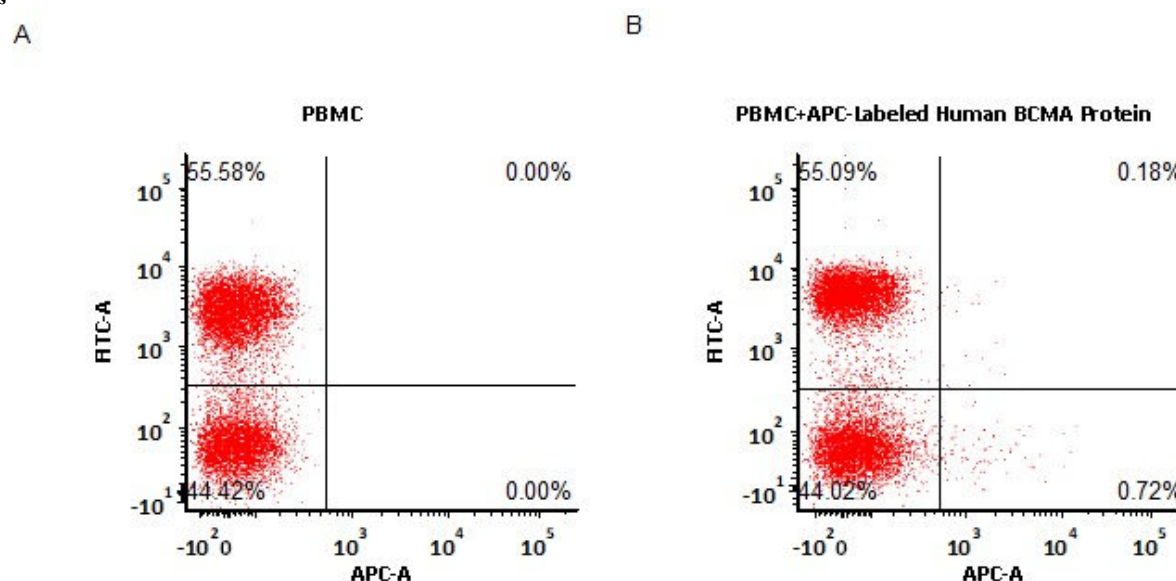
### Evaluation of CAR expression

FACS Analysis of Anti-BCMA CAR Expression



$5 \times 10^5$  of anti-BCMA CAR-293 cells were stained with 100  $\mu\text{L}$  of 1:50 dilution (2  $\mu\text{L}$  stock solution in 100  $\mu\text{L}$  FACS buffer) of APC-Labeled Human BCMA, His Tag (Cat. No. BCA-HA2H4) and negative control protein respectively (Fig. C and B), and non-transfected 293 cells were used as a control (Fig. A). APC signal was used to evaluate the binding activity (QC tested).

FACS Analysis of Non-specific binding to PBMCs



$5 \times 10^5$  of PBMCs were stained with APC-Labeled Human BCMA, His Tag (Cat. No. BCA-HA2H4) 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 APC 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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