

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


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:

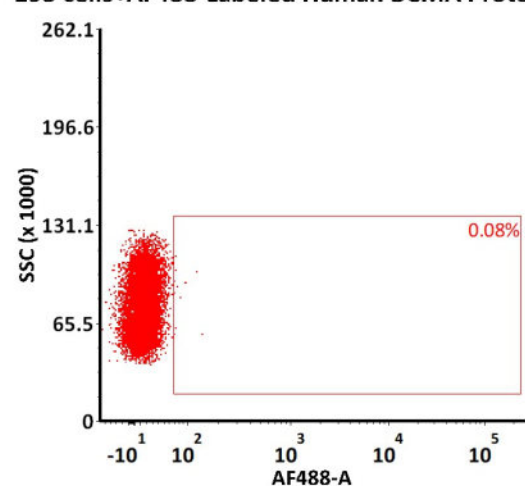
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Evaluation of CAR expression

FACS Analysis of Anti-BCMA CAR Expression

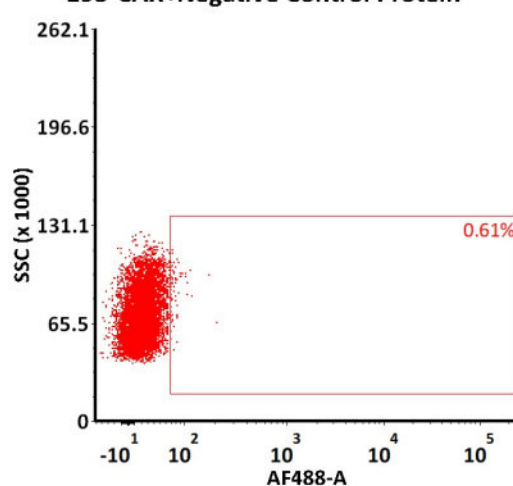
A

293 cells+AF488-Labeled Human BCMA Protein



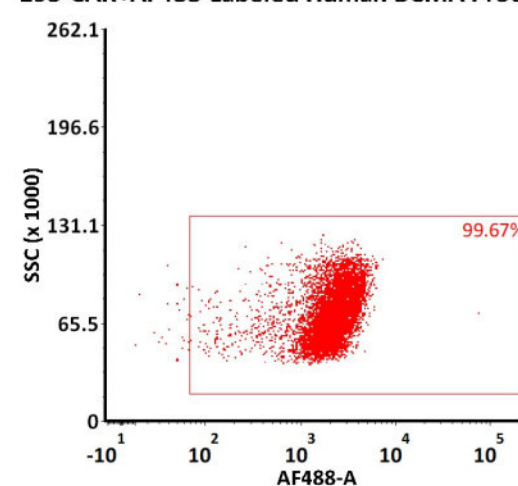
B

293-CAR+Negative Control Protein



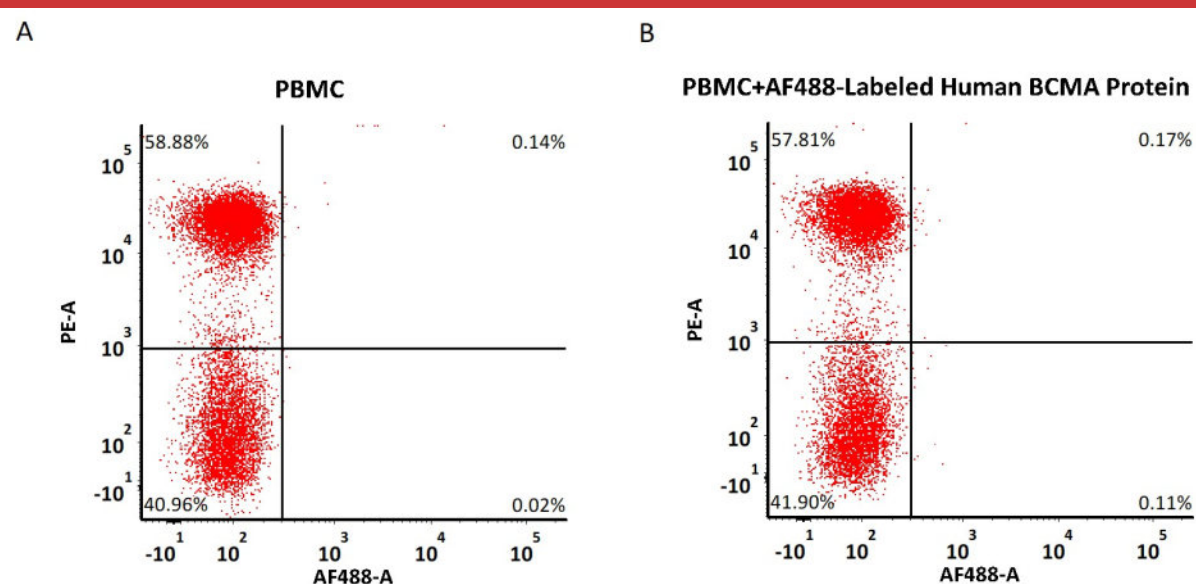
C

293-CAR+AF488-Labeled Human BCMA Protein



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+ 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

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.