

#### Synonym

TNFRSF17,CD269,BCM,BCMA

#### Source

FITC-Labeled Human BCMA, His Tag (BCA-HF2H3) is produced via conjugation of FITC 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 22.2 kDa. The protein migrates as 30-35 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

### Endotoxin

Less than 1.0 EU per µg by the LAL method.

## **Purity**

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

#### **Formulation**

Lyophilized from 0.22  $\mu m$  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

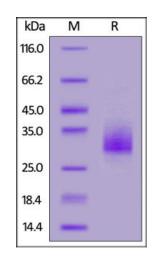
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

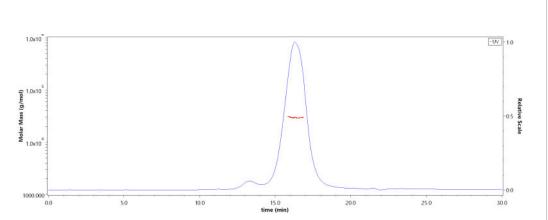


FITC-Labeled Human BCMA, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

#### **Evaluation of CAR expression**

FACS Analysis of Anti-BCMA CAR Expression

# SEC-MALS



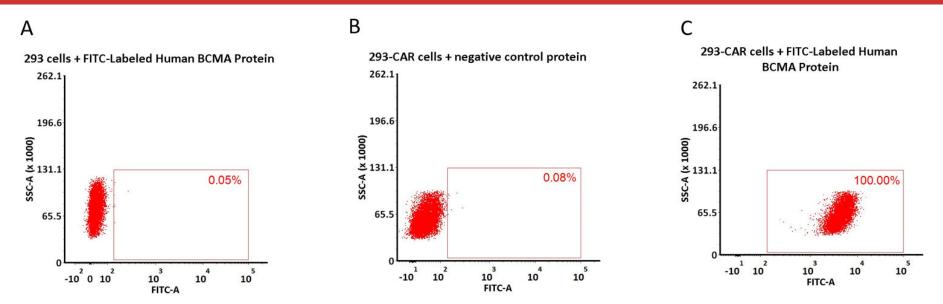
The purity of FITC-Labeled Human BCMA, His Tag (Cat. No. BCA-HF2H3) is more than 90% and the molecular weight of this protein is around 24-34 kDa verified by SEC-MALS.

Report

## FITC-Labeled Human BCMA / TNFRSF17 Protein, His TagStar Staining

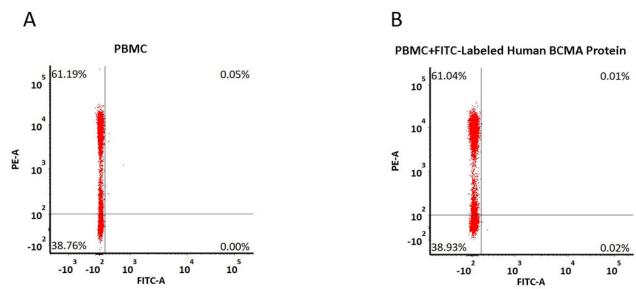






2e5 of 293 CAR cells transfected with anti-BCMA-scFv were stained with 100 μL of 1 μg/mL of FITC-Labeled Human BCMA, His Tag (Cat. No. BCA-HF2H3) and negative control protein respectively (Fig. C and B), and non-transfected 293 cells were used as a control (Fig. A), FITC signal was used to evaluate the binding activity (QC tested).

FACS Analysis of Non-specific binding to PBMCs



5e5 of PBMCs were stained with FITC-Labeled Human BCMA, His Tag (Cat. No. BCA-HF2H3) 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 FITC 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 <u>TechSupport@acrobiosystems.com</u> if you have any question on this product.