

## Technical Data Sheet

### APC Conjugated Human BCMA Protein (C-Fc)

**Catalog Number:** 802403, 802404

**Size:** 25 ug, 100 ug

**Target Name:** TNFRSF17, CD269, BCM, BCMA

**Regulatory Status:** RUO

#### Product Details

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**Application:** FC

**Format:** Liquid, APC

**Expression Host:** HEK293

**Species:** Human

**Sources:** Human BCMA protein (NP\_001183.2) (Met1-Ala54) with C-terminus Human IgG1 Fc tag is expressed in HEK293 cells and conjugated to APC.

**Accession Number:** Q02223

**Molecular Weight:** The protein has a predicted molecular weight of 33kDa. Under DTT-reducing conditions, it migrates at approximately 35-45 kDa on SDS-PAGE prior to conjugation.

**Affinity Tag:** C-Fc

**Formulation:** 1xPBS buffer, pH7.4, 0.09% NaN<sub>3</sub> with a carrier protein

**Endotoxin level:** Not tested

**Protein Concentration:** 25µg size is bottled at 0.1mg/mL concentration. 100 µg size is bottled at lot specific concentration.

**Storage and Handling:** Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2–8°C for up to six months.

#### Background Information

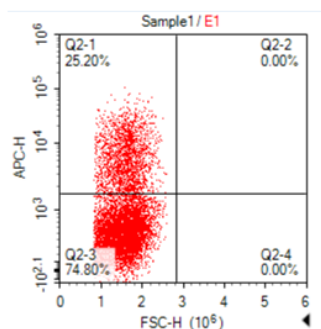
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CD269, also known as B-cell maturation antigen (BCMA), is a 27 kD single-pass transmembrane protein that contains one TNFR-Cys repeat in its extracellular domain. This protein is a critical factor for the long-term survival and maintenance of plasma cells and plays an essential role in B-cell maturation. CD269 is expressed by plasmablasts, plasma cells, and germinal center B cells, and it is primarily involved in regulating humoral immunity. The ligands for CD269 include BAFF (B-cell activating factor) and APRIL (A proliferation-inducing ligand). These ligands bind to CD269, initiating a signaling cascade that supports B-cell survival and plasma cell function. Additionally, the cytoplasmic domain of CD269 interacts with several members of the TRAF (tumor necrosis factor receptor-associated factor) family, which are important for transducing survival and proliferation signals within the cell. Due to its essential role in immune response regulation, CD269 is a key player in the development and functioning of plasma cells.

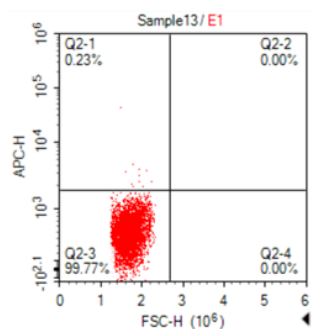
#### Product Data

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**A: BCMA CAR-transfected  
Stained with APC-BCMA-Fc**



**B: Mock-transfected  
Stained with APC-BCMA-Fc**



CHO cells transfected with either BCMA CAR or Mock plasmid were stained with APC conjugated BCMA (C-Fc) protein at 4ug\_test