

## APC Human BCMA (CD269) Protein (C-Fc)

|                           |                            |
|---------------------------|----------------------------|
| <b>Catalog Number:</b>    | 802403, 802404             |
| <b>Size:</b>              | 25 ug, 100 ug              |
| <b>Target Name:</b>       | TNFRSF17, CD269, BCM, BCMA |
| <b>Regulatory Status:</b> | RUO                        |

### PRODUCT DETAILS

|                               |                                                                                                                                                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application:</b>           | Flow Cytometry                                                                                                                                                 |
| <b>Format:</b>                | Liquid, APC                                                                                                                                                    |
| <b>Expression Host:</b>       | HEK293                                                                                                                                                         |
| <b>Species:</b>               | Human                                                                                                                                                          |
| <b>Sources:</b>               | Human BCMA protein (NP_001183.2) (Met1-Ala54) with C-terminus Human IgG1 Fc tag is expressed in HEK293 cells and conjugated to APC.                            |
| <b>Accession Number:</b>      | Q02223                                                                                                                                                         |
| <b>Molecular Weight:</b>      | 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. |
| <b>Affinity Tag:</b>          | C-Fc                                                                                                                                                           |
| <b>Formulation:</b>           | 1xPBS buffer, pH7.4, 0.09% NaN3 with a carrier protein                                                                                                         |
| <b>Endotoxin level:</b>       | Not tested                                                                                                                                                     |
| <b>Protein Concentration:</b> | 25µg size is bottled at 0.1mg/mL concentration. 100 µg size is bottled at lot specific concentration.                                                          |
| <b>Storage and Handling:</b>  | Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2-8°C for up to six months.                                                        |

### BACKGROUND INFORMATION

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

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

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

Sample1 / E1

Sample13 / E1

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