

Technical Data Sheet

Biotinylated Human BCMA Protein (C-Fc-Avi)

Catalog Number: 802203, 802204
Size: 25 ug, 100 ug
Target Name: TNFRSF17, CD269, BCM, BCMA
Regulatory Status: RUO

Product Details

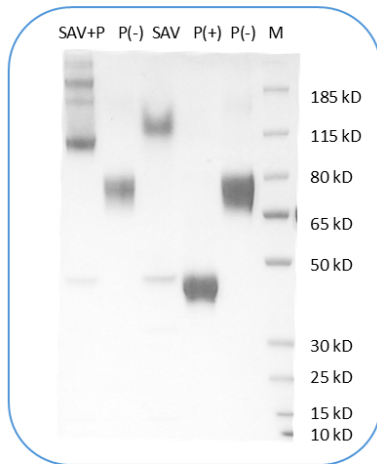
Application: ELISA, BLI
Format: Liquid, Biotinylated
Expression Host: HEK293
Species: Human
Sources: Human BCMA protein (NP_001183.2) (Met1-Ala54) with C-terminus Human IgG1 Fc-Avi tag is expressed in HEK293 cells. This protein was site-specifically labeled with Biotin by BirA ligase.
Accession Number: Q02223
Molecular Weight: The protein has a predicted molecular weight of 34.3kDa. Under DTT-reducing conditions, it migrates at approximately 35-45 kDa on SDS-PAGE.
Affinity Tag: C-Fc-Avi
Purity: >95% based on SDS-PAGE under reducing condition
Formulation: 1xPBS buffer, pH7.4, 0.22 µm filtered
Endotoxin level: Not tested
Protein Concentration: 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.
Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ -70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

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



Human BCMA (C-Fc-Avi) was biotinylated in vitro using BirA ligase. SDS-PAGE analysis under reducing (P+) and non-reducing (P-) conditions shows the protein has a purity greater than 95%. A gel shift assay using co-incubation with streptavidin indicates that the biotinylation efficiency of the BCMA protein exceeds 95%.