

# Mouse TNFRSF17 / BCMA Protein (His & Fc Tag)

Catalog Number: 50076-M03H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

BCM; BCMA; Tnfrsf13; Tnfrsf13a

### Protein Construction:

A DNA sequence encoding the extracellular domain of mouse BCMA (NP\_035738.1) (Met 1-Thr 49) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.

**Source:** Mouse

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 90 % as determined by SDS-PAGE

### Bio Activity:

Measured by its binding ability in a functional ELISA. Immobilized human BAFF (Cat:10056-HNCH) at 10  $\mu$ g/ml (100  $\mu$ l/well) can bind mouse BCMA-Fc, The EC<sub>50</sub> of mouse BCMA-Fc is 0.02-0.06  $\mu$ g/mL.

### Endotoxin:

< 1.0 EU per  $\mu$ g of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Glu 20

### Molecular Mass:

The recombinant mouse BCMA/Fc chimera is a disulfide-linked homodimer. The reduced monomer consists of 297 amino acids and has a predicted molecular mass of 33.7 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rm BCMA/Fc monomer is approximately 35-48 kDa due to glycosylation.

### Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

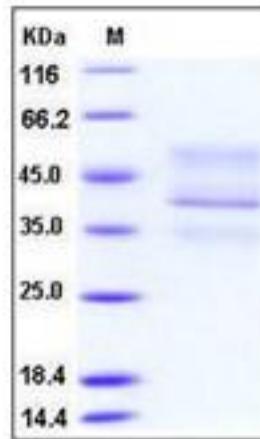
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

### SDS-PAGE:



## Protein Description

Tumor necrosis factor receptor superfamily, member 17 (TNFRSF17), also known as B cell maturation antigen (BCMA) or CD269 antigen, is a member of the TNF-receptor superfamily. This receptor is preferentially expressed in mature B lymphocytes, and may be important for B cell development and autoimmune response. This receptor has been shown to specifically bind to the tumor necrosis factor (ligand) superfamily, member 13b (TNFSF13BBAFF), and to lead to NF- $\kappa$ B and MAPK8/JNK activation. TNFRSF17/BCMA/CD269 also binds to various TRAF family members, and thus may transduce signals for cell survival and proliferation. TNFRSF17/BCMA/CD269 is a receptor for TALL-1 and BCMA activates NF- $\kappa$ B through a TRAF5-, TRAF6-, NIK-, and IKK-dependent pathway. The identification of TNFRSF17 as a NF- $\kappa$ B-activating receptor for TALL-1 suggests molecular targets for drug development against certain immunodeficient or autoimmune diseases. TNFRSF17/BCMA is a target of donor B-cell immunity in patients with myeloma who respond to DLI. Antibody responses to cell-surface BCMA may contribute directly to tumor rejection in vivo.

## References

- 1.Novak AJ, et al. (2004) Expression of BCMA, TACI, and BAFF-R in multiple myeloma: a mechanism for growth and survival. *Blood*. 103 (2): 689-94.
- 2.O'Connor BP, et al. (2004) BCMA is essential for the survival of long-lived bone marrow plasma cells. *J Exp Med*. 199(1): 91-8.
- 3.Moser K, et al. (2006) Stromal niches, plasma cell differentiation and survival. *Curr Opin Immunol*. 18(3): 265-70.

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