

Cynomolgus / Rhesus TNFRSF17 / BCMA Protein (Fc Tag)

Catalog Number: 90103-C02H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

TNFRSF17

Protein Construction:

A DNA sequence encoding the Cynomolgus / Rhesus TNFRSF17 (XP_001106892.1) (Met1-Ala53) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: Cynomolgus / Rhesus

Expression Host: HEK293 Cells

QC Testing

Purity: ≥ 95 % as determined by SDS-PAGE. ≥ 90 % as determined by SEC-HPLC.

Bio Activity:

1. Immobilized Recombinant Human APRIL/TNFSF13 Protein (His Tag) (Cat: 10610-H07H2) at 2 µg/mL (100 µL/well) can bind Recombinant Rhesus TNFRSF17 / BCMA Protein (Fc Tag) (Cat: 90103-C02H), the EC50 is 0.5-3.0 ng/mL (QC tested).

2. Measured by its binding ability in a functional ELISA. Immobilized Cynomolgus / Rhesus BCMA hFc (Cat: 90103-C02H) at 2 µg/mL (100 µL/well) can bind Human BAFF/BLyS hFc (Cat: 10056-H01H), Biotinylated, the EC50 of Human BAFF/BLyS hFc, Biotinylated is 1.0-6.0 ng/mL (Routinely tested).

3. Immobilized Recombinant Cynomolgus / Rhesus TNFRSF17 / BCMA Protein (Fc Tag) (Cat: 90103-C02H) at 2 µg/mL (100 µL/well) can bind Recombinant Human BLyS / TNFSF13B Protein (Fc & AVI Tag), Biotinylated (Cat: 10056-H42H-B), The EC50 is 1.5-6 ng/mL (Routinely tested).

4. Immobilized Recombinant Cynomolgus / Rhesus TNFRSF17 / BCMA Protein (Fc Tag) (Cat: 90103-C02H) at 2 µg/mL (100 µL/well) can bind biotinylated Anti-BCMA Antibody, Human IgG1, the EC50 is 20-80 ng/mL (Routinely tested).

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Predicted N terminal: Met

Molecular Mass:

The recombinant Cynomolgus / Rhesus TNFRSF17 comprises 294 amino acids and has a calculated molecular mass of 33 KDa.

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

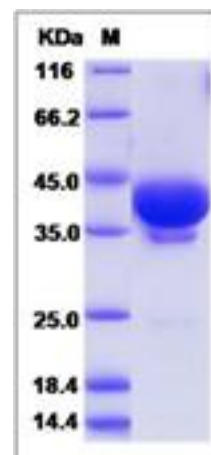
Stability & Storage:

Samples are stable for twelve months from date of receipt at -20°C to -80°C.

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.

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-kappaB 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-kappaB through a TRAF5-, TRAF6-, NIK-, and IKK-dependent pathway. The identification of TNFRSF17 as a NF-kappaB-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.