

Recombinant Mouse Tumor Necrosis Factor Receptor Superfamily, Member 17

Cat. No. Tnfrsf17-1708M Lot. No. (See product label)

SPECIFICATION

Species Mouse

Source Mammalian Cells

Description

Members in the TNF superfamily regulate immune responses and induce apoptosis. Two novel members in the TNF family were recently identified and designated BAFF/B LyS/TALL-1/THANK/zTNF41-4 and April/TALL-2, respectively. BAFF was characterized as a B cell activator since it induced B cell proliferation and immunoglobulin secretion. April regulates immunological and non-immunological cell growth. Three receptors, BCMA (for B cell maturation protein), TACI, and BAFF-R, for BAFF were recently identified. BCMA, like TACI, binds BAFF and April. BAFF and its receptors induce B cell development and survival, activate NF- κ B and c-jun N-terminal kinase, and are involved in B cell associated autoimmune diseases. BCMA expression has been found in immune organs and mature B cell lines. Although some expression has been observed at the cell surface, BCMA appears to be localized to the Golgi compartment. The binding of BCMA to APRIL or BAFF has been shown to stimulate IgM production in peripheral blood B cells and increase the survival of cultured B cells. This data suggests that BCMA may play an important role in B cell development, function and regulation. Mouse and human BCMA share 62% amino acid identity.

Molecular Weight

The predicted molecular weight of Recombinant Mouse BCMA is Mr 32 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 35-40 kDa.

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State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Formulation	This recombinant protein was lyophilized from a 0.2 µm filtered solution in 20 mM MES, 50 mM NaCl, pH 6.2.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Mouse BCMA was determined by its ability to inhibit APRIL-mediated proliferation of anti-IgM stimulated mouse B cells. The expected ED50 for this effect is 0.01 - 0.03 µg/ml in the presence of 100 ng/ml of human APRIL.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	Tnfrsf17 tumor necrosis factor receptor superfamily, member 17 [Mus musculus]
Synonyms	Tnfrsf17; tumor necrosis factor receptor superfamily, member 17; BCM; BCMA; Tnfrsf13; Tnfrsf13a
Gene ID	21935
mRNA Refseq	NM_011608
Protein Refseq	NP_035738

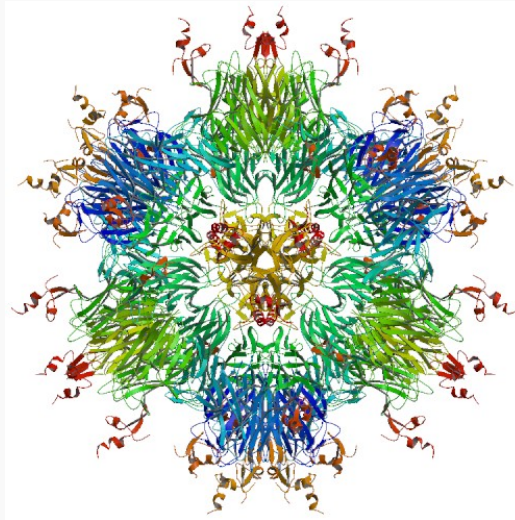
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UniProt ID	O88472
Chromosome Location	16 B3
Pathway	Cytokine-cytokine receptor interaction
Function	receptor activity

PDB rendering based on 1oqd.



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