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32-6502: Recombinant Mouse BCMA

Application :	ELISA
Reactivity :	Mouse
Gene :	Tnfrsf17
Gene ID :	21935
Uniprot ID :	O88472
Format :	Purified
Alternative Name :	B-cell maturation protein, Bcm, Bcma, CD269, Tnfrsf17, Tumor necrosis factor receptor superfamily member 17

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/BLyS/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-kB 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.

Product Info

Amount :	50 µg
Purification :	>95% by SDS-PAGE and analyzed by silver stain.
Content :	This recombinant protein was lyophilized from a 0.2 Î¼m filtered solution in 20 mM MES, 50 mM NaCl, pH 6.2.
Storage condition :	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.
Amino Acid :	MAQQCFHSEY FDSLLHACKP CHLRCSNPPA TCQPYCDPSV TSSVKGTYTI EGRMDPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTPPVLDSD GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGK

Application Note

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. This can be used as capture antibody.

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