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15-3001: BCMA Blocking Peptide

Application :	Functional Assay
Reactivity :	Human
Gene :	TNFRSF17
Gene ID :	608
Uniprot ID :	Q02223
Alternative Name :	B-cell maturation protein, BCM, BCMA, CD269, TNFRSF17
Immunogen Information :	Peptide sequence of Human BCMA protein is located at (amino acids 169-184) and 16 amino acids near the carboxy terminus of human BCMA.

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
Content :	This peptide is formulated in PBS pH 7.2 (0.01 M Sodium Phosphate, 0.13 M NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide.
Storage condition :	Store this peptide in working aliquots at -20°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.
Amino Acid :	16 amino acids near the carboxy terminus of human BCMA.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.