

## 32-6501: Recombinant Human B Cell Maturation Antigen (BCMA)

<b>Application :</b>	ELISA
<b>Reactivity :</b>	Human
<b>Gene :</b>	TNFRSF17
<b>Gene ID :</b>	608
<b>Uniprot ID :</b>	Q02223
<b>Alternative Name :</b>	B-cell maturation protein, BCM, BCMA, CD269, TNFRSF17

### Description

BCMA, also known as TNFRSF17, is a type III membrane protein and member of the TNF receptor superfamily, which are critically involved in the maintenance of homeostasis of the immune system (1). 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 (2). Both BAFF and APRIL are ligands for BCMA (4-5). BCMA/BAFF binding induces B cell development and survival, activates NF- $\kappa$ B and c-jun N-terminal kinase, and is involved in B cell associated autoimmune diseases. The binding of BCMA to APRIL has been shown to stimulate IgM production in peripheral blood B cells and increase the survival of cultured B cells (4). This data suggests that BCMA may play an important role in B cell development, function and regulation. BCMA also binds B-lymphocyte stimulator (BLyS) (6).

### Product Info

<b>Amount :</b>	50 $\mu$ g
<b>Purification :</b>	>95% by SDS-PAGE and analyzed by silver stain.
<b>Content :</b>	This recombinant protein was 0.2 $\mu$ m filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 - 7.3 with no calcium, magnesium, or preservatives.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	mlqmagqcsq neyfdslha cipcqlrscs ntppltcqry cnasvtnsvk gtnaiegrmd pkscdkthtc ppcpapellg gpsvflfppk pkdtlmisrt pevtecvvvdv shedpevkfn wyvdgvevhn attkpreeq nstyrvsvl tvlhqdwlng keykckvsnk alpapiekti skakgqprep qvytlppsr eltknqvsit clvkgfypsd iavewesngq pennyktpp vldsdgsffl yskltvdksr wqggnvfscs vmhealthhny tqkslslspg k

### Application Note

This can be used as capture antibody. The biological activity of Human 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 typically 0.01 - 0.04  $\mu$ g/ml in the presence of 100 ng/ml of rhAPRIL.