

## 11-5502: Anti-Human/Primate BCMA-Biotin Conjugated Antibody(Discontinued)

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	ELISA,FACS,WB
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	Biotin
<b>Gene :</b>	TNFRSF17
<b>Gene ID :</b>	608
<b>Uniprot ID :</b>	Q02223
<b>Format :</b>	Purified
<b>Alternative Name :</b>	B-cell maturation protein, BCM, BCMA, CD269, TNFRSF17
<b>Isotype :</b>	Goat IgG
<b>Immunogen Information :</b>	Purified Recombinant Human BCMA

### Description

#### Specificity:

Goat Anti-Human B Cell Maturation Protein (BCMA) recognizes Human BCMA. This antigen affinity purified polyclonal antibody was purified using a proprietary chromatographic technique that includes covalently immobilizing the antigen proteins or peptides to agarose based beads. This purification method enhances specificity, reduces nonspecific binding of extraneous IgG and provides you with the most reliable reagent available for your early discovery research.

#### Background:

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- $\kappa$ 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.

### Product Info

<b>Amount :</b>	50 $\mu$ g
<b>Purification :</b>	This biotinylated antigen affinity purified polyclonal antibody has been 0.2 $\mu$ m filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 - 7.3 containing 50 $\mu$ g of bovine serum albumin per $\mu$ g of antibody with no calcium, magnesium, or preservatives present.
<b>Content :</b>	We suggest aseptically reconstituting this biotinylated, lyophilized, antigen affinity purified polyclonal antibody with 1 ml of sterile 20 mM Trizma base, 0.15 M sodium chloride (1X Tris Buffered Saline) pH 7.2-7.3, containing 0.1% w/v bovine serum albumin (BSA). This will result in a final biotinylated antibody concentration of 50 $\mu$ g/ml.

**Storage condition :**

The lyophilized, biotinylated antigen affinity purified polyclonal antibody can be stored desiccated at -20°C to -70°C for up to twelve months from date of receipt. The reconstituted bioin conjugate can be stored for at least four weeks at 2-8°C. For long-term storage of the reconstituted conjugate, aseptically aliquot into working volumes and store at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. No detectable loss of activity was observed after six months.

**Application Note**

Recommended dilutions: ELISA: 200 ng/ml, Western Blotting Analysis: 0.1-0.2 µg/ml, FACS Analysis: 1-2.5 µg/10<sup>5</sup> cells. This can be used as detection antibody. However, this need to be optimized based on the research applications.