

# BCMA Antibody

Catalog # ASC10131

## Product Information

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<b>Application</b>	WB, IF, E, IHC-P
<b>Primary Accession</b>	<a href="#">Q02223</a>
<b>Other Accession</b>	<a href="#">NP_001183</a> , <a href="#">23238192</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	20165
<b>Concentration (mg/ml)</b>	1 mg/mL
<b>Conjugate</b>	Unconjugated
<b>Application Notes</b>	BCMA antibody can be used for detection of BCMA by Western blot at 5 $\mu$ g/mL. Antibody can also be used for immunohistochemistry starting at 10 $\mu$ g/mL. For immunofluorescence start at 20 $\mu$ g/mL.

## Additional Information

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<b>Gene ID</b>	608
<b>Other Names</b>	BCMA Antibody: BCM, BCMA, CD269, TNFRSF13A, BCM, Tumor necrosis factor receptor superfamily member 17, B-cell maturation protein, tumor necrosis factor receptor superfamily, member 17
<b>Target/Specificity</b>	TNFRSF17;
<b>Reconstitution &amp; Storage</b>	BCMA antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
<b>Precautions</b>	BCMA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	TNFRSF17
<b>Synonyms</b>	BCM, BCMA
<b>Function</b>	Receptor for TNFSF13B/BlyS/BAFF and TNFSF13/APRIL. Promotes B-cell survival and plays a role in the regulation of humoral immunity. Activates NF-kappa-B and JNK.
<b>Cellular Location</b>	Cell membrane; Single-pass type III membrane protein. Endomembrane system; Single-pass type III membrane protein Note=Perinuclear Golgi-like

**Tissue Location**

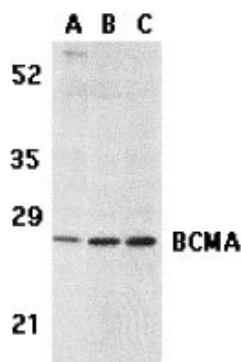
Expressed in mature B-cells, but not in T-cells or monocytes

**Background**

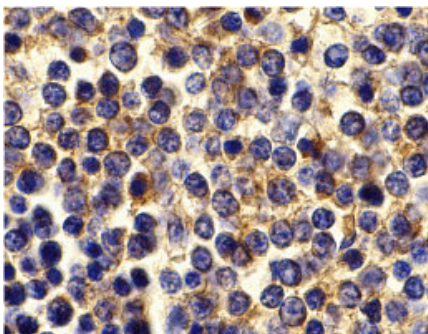
BCMA Antibody: Members in the TNF superfamily regulate immune responses and induce apoptosis. Two novel members in the TNF family were recently identified and designated BAFF/BLyS/TALL-1/THANK/zTNF4 and April/TALL-2, respectively. BAFF was characterized as a B cell activator since it induced B cell proliferation 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.

**References**

- Moore PA, Belvedere O, Orr A, et al. BLyS: member of the tumor necrosis factor family and B lymphocyte stimulator. *Science* 1999; 285:260-3
- Schneider P, MacKay F, Steiner V, et al. BAFF, a novel ligand of the tumor necrosis factor family, stimulates B cell growth. *J. Exp. Med.* 1999; 189:1747-56
- Shu HB, Hu WH, Johnson H. TALL-1 is a novel member of the TNF family that is down-regulated by mitogens. *J. Leukoc. Biol.* 1999; 65:680-3
- Mukhopadhyay A, Ni J, Zhai Y, et al. Identification and characterization of a novel cytokine, THANK, a TNF homologue that activates apoptosis, nuclear factor- $\kappa$ B, and c-Jun NH2-terminal kinase. *J. Biol. Chem.* 1999; 274:15978-81

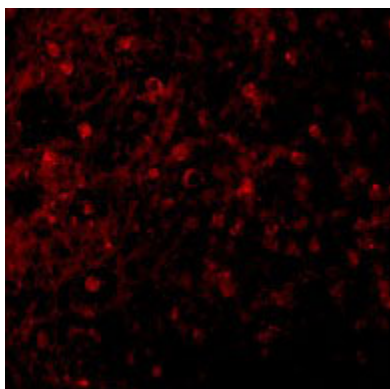
**Images**

Western blot analysis of BCMA in (A) human spleen tissue lysate, (B) K562, and (C) U937 cell lysates with BCMA antibody at 5 µg/mL.



Immunohistochemistry of BCMA in human spleen tissue with BCMA antibody at 10 µg/mL.

Immunofluorescence of BCMA in Human Spleen tissue with BCMA antibody at 10 µg/mL.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.