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BCMA Antibody

Catalog # ASC10131

Product Information

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

Additional Information

Gene ID	608
Other Names	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
Target/Specificity	TNFRSF17;
Reconstitution & Storage	BCMA antibody can be stored at 4℃ for three months and -20℃, 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.
Precautions	BCMA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TNFRSF17
Synonyms	BCM, BCMA
Function	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.
Cellular Location	Cell membrane; Single-pass type III membrane protein. Endomembrane system; Single-pass type III membrane protein Note=Perinuclear Golgi-like

	structures
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-κB and c-jun N-terminal kinase, and are involved in B cell associated autoimmune diseases.

References

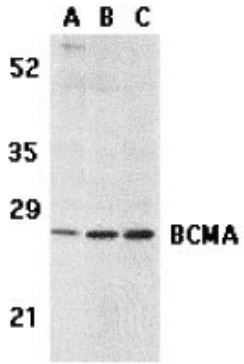
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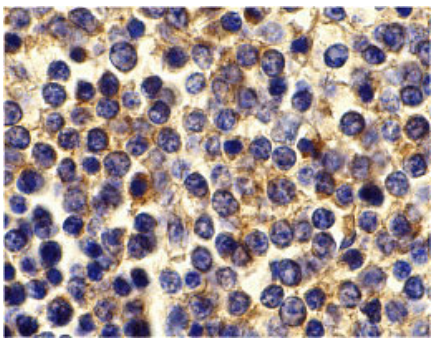
Shu HB, Hu WH, Johnson H. TALL-1 is a novel member of the TNF family that is down-regulated by mitogens. J. Leukoc. Biol. 1999; 65:680-3

Mukhopadhyay A, Ni J, Zhai Y, et al. Identification and characterization of a novel cytokine, THANK, a TNF homologue that activates apoptosis, nuclear factor-κB, and c-Jun NH2-terminal kinase. J. Biol. Chem. 1999; 274:15978-81

Images

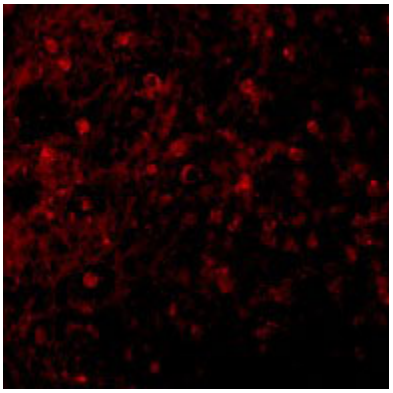


Western blot analysis of BCMA in (A) human spleen tissue lysate, (B) K562, and (C) U937 cell lysates with BCMA antibody at 5 µg/mL.



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.



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