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BCMA Antibody
Catalog # ASC10131

Specification

BCMA Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	Q02223
Other Accession	NP_001183, 23238192
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 20 kDa** **Observed: 27 kDa KDa**
Application Notes	**BCMA antibody can be used for detection of BCMA by Western blot at 5 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL. For immunofluorescence start at 20 µg/mL.**

BCMA Antibody - 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
Antibody can be stored at 4°C up to one year. 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.

BCMA Antibody - 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

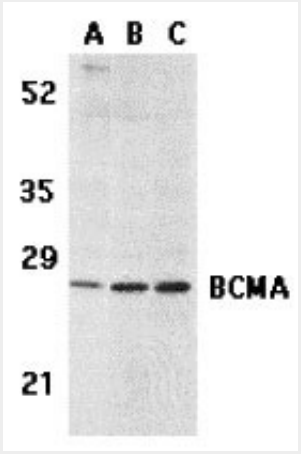
Tissue Location
Expressed in mature B-cells, but not in T-cells or monocytes

BCMA Antibody - Protocols

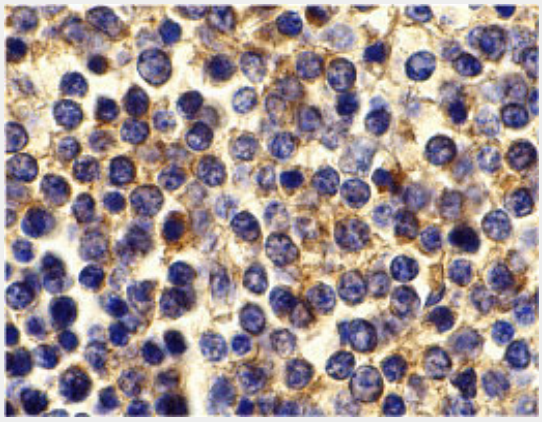
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BCMA Antibody - Images

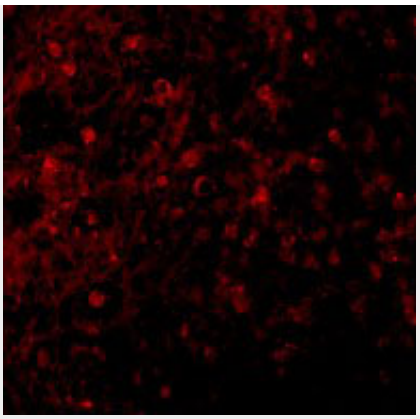


Western blot analysis of BCMA in (A) human spleen tissue lysate, (B) K562, and (C) U937 cell lysates with BCMA antibody at 5 µg/mL.



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

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

BCMA Antibody - 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.

BCMA Antibody - 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-κB, and c-Jun NH2-terminal kinase. J. Biol. Chem. 1999; 274:15978-81