

Human BCMA/TNFRSF17 Antibody

Monoclonal Mouse IgG₁ Clone # 1042028 Catalog Number: MAB10762

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human BCMA/TNFRSF17 in ELISA.	
Source	Monoclonal Mouse IgG ₁ Clone # 1042028	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Mouse myeloma cell line, NS0-derived human BCMA/TNFRSF17 Pro100-Lys330 Accession # Q6PE46	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website

BCMA/TNFRSF17 in U266

BCMA/TNFRSF17 was detected

in immersion fixed U266 human

chronic myelogenous leukemia

cell line (negative staining) using

BCMA/TNFRSF17 Monoclonal

Antibody (Catalog # MAB10762)

at 8 µg/mL for 3 hours at room

temperature. Cells were stained

using the NorthernLights™ 557-

Secondary Antibody (red; Catalog

NL007) and counterstained with

DAPI (blue). Specific staining

was localized to cytoplasm. Staining was performed using our protocol for Fluorescent ICC Staining of Non-adherent Cells.

conjugated Anti-Mouse IgG

myeloma cell line (positive staining) and K562 human

Human Cell Line .

Mouse Anti-Human

	Recommended Concentration	Sample
Immunocytochemistry	8-25 μg/mL	Immersion fixed U266 human myeloma cell line
Immunohistochemistry	5-25 μg/mL	Immersion fixed paraffin-embedded sections of human tonsil

DATA

Immunocytochemistry

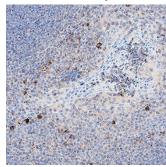






Negative (K562 cells)

Immunohistochemistry



BCMA/TNFRSF17 in Human Tonsil. BCMA/TNFRSF17 was detected in immersion fixed paraffin-embedded sections of human tonsil using Mouse Anti-Human BCMA/TNFRSF17 Monoclonal Antibody (Catalog # MAB10762) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to lymphocytes. Staining was performed using our protocol for IHC Staining with VisUCvte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

BCMA, B cell maturation antigen, is a member of the TNF receptor superfamily. It has been designated TNFRSF17. BCMA is a type III membrane protein containing one extracellular cysteine rich domain. Within the TNFRSF, it shares the highest homology with TACI. BCMA and TACI have both been shown to bind to APRIL and BAFF, members of the TNF ligand superfamily. 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. Human BCMA is a 184 amino acid (aa) protein consisting of a 54 aa extracellular domain, a 23 aa transmembrane domain, and a 107 aa intracellular domain. Mouse and human BCMA share 62% amino acid identity.

References:

- 1. Madry, C. et al. (1998) Int. Immunol. 10:1693.
- 2. Gras, M. et al. (1995) Int. Immunol. 7:1093.
- 3. Kwon, B. et al. (1999) Curr. Opin. Immunol. 11:340.
- 4. Marsters, S. et al. (2000) Curr. Biol. 10:785.
- 5. Thompson, J. et al. (2000) J. Exp. Med. 192:129.

