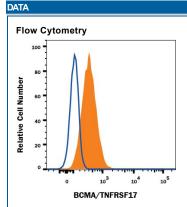


Human BCMA/TNFRSF17 Antibody

Monoclonal Mouse IgG₁ Clone # 1004024 Catalog Number: MAB1932

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human BCMA/TNFRSF17 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 1004024
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human BCMA /TNFRSF17 Met1-Ala54 Accession # Q02223
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.					
Flow Cytometry	0.25 μg/10 ⁶ cells	See Below			
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.				
ELISA	This antibody functions as an ELISA capture antibody when paired with Goat Anti-Human BCMA/TNFRSF17 Antigen Affinity-purified Polyclonal Antibody(Catalog # AF193).				
	,	lopment on various assay platforms requiring antibody pairs. We recommend LISA Kit (Cataloa # DY193) for convenient development of a sandwich ELISA.			



Detection of BCMA/TNFRSF17 in RPMI8226 Human Cell Line by Flow Cytometry. RPMI8226 human myeloma cell line was stained with Mouse Anti-Human BCMA/TNFRSF17 Monoclonal Antibody (Catalog # MAB1932, filled histogram) or isotype control antibody (Catalog # Catalog # MAB002, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # F0102B). View our protocol for Staining Membrane-associated Proteins.

PREPAR	ATION AN	DSTORAGE	

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

- 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.

