Human BCMA/TNFRSF17 Antibody

Monoclonal Mouse IgG_{2B} Clone # 1004023

Catalog Number: MAB1931

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BCMA/TNFRSF17 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 1004023
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.

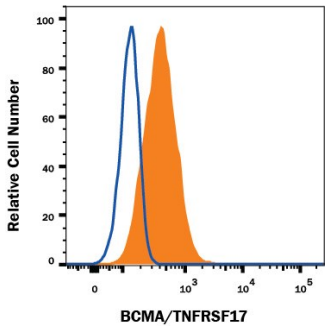
APPLICATIONS

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.*

	Recommended Concentration	Sample
Flow Cytometry	0.25 µg/10^6 cells	See Below
Immunohistochemistry	5-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

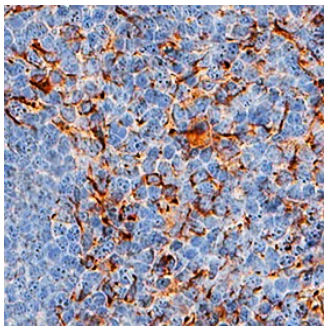
DATA

Flow Cytometry



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 # MAB1931, filled histogram) or isotype control antibody (Catalog # MAB10041, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). View our protocol for Staining Membrane-associated Proteins.

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 # MAB1931) 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 plasma membrane. View our protocol for IHC Staining with VisUCyte 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.

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