RD SYSTEMS a biotechne brand

Human BAFF R/TNFRSF13C Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2403C Catalog Number: MAB1162

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human BAFF R/TNFRSF13C in direct ELISAs.	
Source	Recombinant Monoclonal Rabbit IgG Clone # 2403C	
Purification	Protein A or G purified from cell culture supernatant	
Immunogen	Mouse myeloma cell line, NS0-derived human BAFF R/TNFRSF13C Ser7-Ala71 Accession # Q96RJ3	
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



Proteins.

Detection of BAFF R/TNFRSF13C in PBMCs by Flow Cytometry. Peripheral blood mononuclear cells (PBMCs) were stained with either (A) Rabbit Anti-Human BAFF R/TNFRSF13C Monoclonal Antibody (Catalog # MAB1162) or (B) Rabbit IgG Control Antibody (Catalog # MAB1050) followed by APC-conjugated anti-rabbit IgG secondary antibody (Catalog # F0111) and Mouse Anti-Human CD19 PE-conjugated Monoclonal Antibody (Catalog # FAB4867P). View our protocol for Staining Membrane-associated

Immunohistochemistry



BAFF R/TNFRSF13C in Human Spleen. BAFF R/TNFRSF13C was detected in immersion fixed paraffin-embedded sections of human spleen using Rabbit Anti-Human BAFF R/TNFRSF13C Monoclonal Antibody (Catalog # MAB1162) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). 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 cell surfaces in lymphocytes. 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 months20 to -70 °C under sterile conditions after reconstitution. 			

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BACKGROUND

B-cell activating factor (BAFF), also known as BlyS, TALL-1, TNAK, and zTNF4, is a TNF ligand superfamily member and has been designated TNFSF13B. Produced by macrophages, dendritic cells, and T lymphocytes, BAFF promotes the survival of B cells and is essential for B cell maturation (1-4). BAFF binds to three TNF receptor superfamily members: B-cell maturation antigen (BCMA/TNFRSF17), transmembrane activator and calcium-modulator and cyclophilin ligand interactor (TACI/TNFRSF13B) and BAFF receptor (BAFF R/BR3/TNFRSF13C). These receptors are type III transmembrane proteins that lack a signal peptide. Whereas TACI and BCMA bind BAFF and another TNF superfamily ligand, APRIL (a proliferation-inducing ligand), BAFF R selectively binds BAFF. The BAFF R extracellular domain lacks the TNF receptor canonical cysteine-rich domain (CRD) and contains only a partial CRD with four cysteine residues. Human and mouse BAFF R share 56% aa

sequence identity. BAFF R is highly expressed in spleen, lymph node and resting B cells. It is also expressed at lower levels in activated B cell, in resting CD4⁺ T cells, in thymus and peripheral blood leukocytes. BAFF knockout mice lack mature B cells. Similarly, A/WySnJ mice that are defective in BAFF-R intracellular signaling also lack mature B cells, suggesting that BAFF R is the critical receptor for BAFF during B lymphopoiesis. In contrast, BCMA- or TACI-deficient mice have no major defect in B-cell development. While the function of BCMA is not defined, TACI has been shown to control B-cell homeostasis and T-cell-independent immune responses.

References:

- 1. Rolink, A.G. and F. Melcher (2002) Curr. Opin. Immunol. 14:266.
- 2. Mackay F. and J.L. Browning (2002) Nature Reviews Immunology 2:464.
- 3. Laabi, Y. et al. (2001) Current Biol. 11:R1013.
- 4. Thompson, J.S. et al. (2001) Science 14:2108.

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