B-Cell Activating Factor (BAFF) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	B-Cell Activating Factor (BAFF), Monoclonal Antibody
Full Product Name	FITC-Linked Monoclonal Antibody to B-Cell Activating Factor (BAFF)
Product Gene Name	anti-BAFF antibody
Product Synonym Names	B-Cell Activating Factor; CD257; TNFSF13B; BLYS; TALL1; THANK; TNFSF20; ZTNF4; B lymphocyte stimulator; Tumor Necrosis Factor Ligand Superfamily Member 13B; Dendritic cell-derived TNF-like
Immunogen Sequence	Gln68~Leu2 85
Clonality	Monoclonal
Clone Number	C2
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Purity/Purification	Protein A + Protein G affinity chromatography
Concentration	>=1mg/mL (Please refer to the vial label for the specific concentration.) (lot specific)
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, -20 degree C for 12 months
Matching Pairs	FITC Conjugated Antibody: BAFF Clone #C2 (MBS2169072) Immunogen: BAFF (MBS2140085)
Matching Pairs	Unconjugated Antibody: BAFF Clone #C2 (MBS2169928) FITC Conjugated Antibody: BAFF Clone #C2 (MBS2169072)
Molecular Weight	17,578 Da
OMIM	603969
3D Structure	ModBase 3D Structure for Q9Y275
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Conjugation	FITC
Product Categories/Family for anti-BAFF antibody	Monoclonal Antibodies (Primary Abs); Primary, FITC-conjugated; CD & Adhesion molecule; Tumor immunity; Infection immunity; Immune molecule
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-BAFF antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-BAFF antibody	WB: 0.2-2ug/mL; 1:500-5000 IHC: 5-20ug/mL; 1:50-200 ICC: 5-20ug/mL; 1:50-200
Related Product Information for anti-BAFF antibody	MBS2169072 is an antibody targeting BAFF. Also known as FITC-Linked Monoclonal Antibody to B-Cell Activating Factor (BAFF). Reactive in Human. Host: Mouse.

Other Notes	Small volumes of anti-BAFF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BAFF. It may not necessarily be applicable to this product.

NCBI GI #	224548983
NCBI GeneID	10673
NCBI Accession #	NP_001139117.1
UniProt Primary Accession #	Q9Y275
UniProt Secondary Accession #	Q6FHD6; Q7Z5J2; E0ADT7
UniProt Related Accession #	Q9Y275
GenBank Nucleotide #	NM_001145645.2
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 13B isoform 2
NCBI Official Synonym Full Names	tumor necrosis factor (ligand) superfamily, member 13b
NCBI Official Symbol	TNFSF13B
NCBI Official Synonym Symbols	DTL; BAFF; BLYS; CD257; TALL1; THANK; ZTNF4; TALL-1; TNFSF20
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 13B
UniProt Synonym Protein Names	B lymphocyte stimulator; BLyS; B-cell-activating factor; BAFF; Dendritic cell-derived TNF-like molecule; TNF- and APOL-related leukocyte expressed ligand 1; TALL-1; CD_antigen: CD257Cleaved into the following 2 chains:Tumor necrosis factor ligand superfamily member 13b, membrane form; Tumor necrosis factor ligand superfamily member 13b, soluble form
Protein Family	Tumor necrosis factor ligand superfamily
UniProt Gene Name	TNFSF13B
UniProt Synonym Gene Names	BAFF; BLYS; TALL1; TNFSF20; ZTNF4; BLyS; TALL-1
UniProt Entry Name	TN13B_HUMAN
NCBI Protein Information	tumor necrosis factor ligand superfamily member 13B; ApoL related ligand TALL-1; B-cell-activating factor; B-lymphocyte stimulator; Delta4 BAFF; TNF and ApoL-related leukocyte expressed ligand 1; TNF homolog that activates apoptosis; delta BAFF; dendritic
NCBI Summary for BAFF	The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for receptors TNFRSF13B/TACI, TNFRSF17/BCMA, and TNFRSF13C/BAFFR. This cytokine is expressed in B cell lineage cells, and acts as a potent B cell activator. It has been also shown to play an important role in the proliferation and differentiation of B cells. Alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Mar 2011]

UniProt Comments for BAFF	BAFF: Cytokine that binds to TNFRSF13B/TACI and TNFRSF17/BCMA. TNFSF13/APRIL binds to the same 2 receptors. Together, they form a 2 ligands -2 receptors pathway involved in the stimulation of B- and T-cell function and the regulation of humoral immunity. A third B-cell specific BAFF-receptor (BAFFR/BR3) promotes the survival of mature B-cells and the B-cell response. Belongs to the tumor necrosis factor family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Apoptosis; Membrane protein, integral; Cell cycle regulation; Cytokine Chromosomal Location of Human Ortholog: 13q32-q34 Cellular Component: extracellular space; perinuclear region of cytoplasm; cytoplasm; plasma membrane; integral to membrane Molecular Function: protein binding; cytokine activity; tumor necrosis factor receptor binding; receptor binding Biological Process: cell proliferation; B cell costimulation; B cell homeostasis; immunoglobulin secretion; T cell costimulation; positive regulation of cell proliferation; positive regulation of germinal center formation; positive regulation of B cell proliferation; immune response; positive regulation of T cell proliferation; signal transduction
Research Articles on BAFF	**1.** Irrespective of HLA Ab status, sBAFF levels progressively increased in all patients in the first posttransplant year, thereafter reaching a plateau.
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