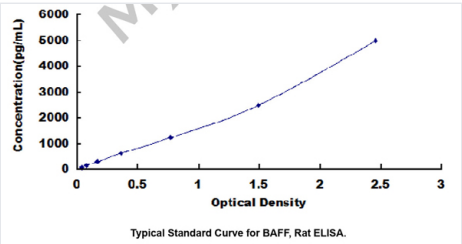
B-Cell Activating Factor (BAFF) ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	B-Cell Activating Factor (BAFF), ELISA Kit
Full Product Name	Rat B-Cell Activating Factor (BAFF) ELISA Kit
Product Gene Name	BAFF elisa kit
Product Synonym Names	CD257; TNFSF13B; BLYS; TALL1; THANK; TNFSF20; ZTNF4; B lymphocyte stimulator; Tumor Necrosis Factor Ligand Superfamily Member 13B; Dendritic cell-derived TNF-like
Species Reactivity	Rat
Assay Type	Quantitative Sandwich
Samples	Rat serum, plasma, tissue homogenates, cell lysates and other biological fluids
Detection Range	78-5,000pg/mL
Sensitivity	< 28pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of BAFF. No significant cross-reactivity or interference between BAFF and analogues was observed.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level BAFF were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level BAFF were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
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.
Product Categories/Family for BAFF elisa kit	CD & Adhesion molecule; Tumor immunity; Infection immunity; Immune molecule
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Related Product Information for BAFF elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to BAFF. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to BAFF. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain BAFF, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of BAFF in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of BAFF in rat serum, plasma, tissue homogenates, cell lysates and other biological fluids.

Other Notes	Small volumes of BAFF elisa kit 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.
Searchable Terms for BAFF purchase	MBS2024157 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the B-Cell Activating Factor (BAFF) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing BAFF. The ELISA analytical biochemical technique of the MBS2024157 kit is based on BAFF antibody-BAFF antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect BAFF antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, BAFF. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of BAFF elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	4585275
NCBI GeneID	10673
NCBI Accession #	AAD25356.1
UniProt Primary Accession #	Q9Y275
UniProt Secondary Accession #	Q6FHD6; Q7Z5J2; E0ADT7
UniProt Related Accession #	Q9Y275
NCBI Official Full Name	B-cell activating factor
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
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
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: Membrane protein, integral; Apoptosis; Cytokine; Cell cycle regulation Chromosomal Location of Human Ortholog: 13q32-q34 Cellular Component: extracellular space; perinuclear region of cytoplasm; cytoplasm; integral to membrane; plasma 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; positive regulation of T cell proliferation; immune response; signal transduction
Research Articles on BAFF	**1.** a critical role of miR-30a-3p in the regulation of BAFF expression
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