

Rabbit anti-Human, Mouse BAFF Polyclonal Antibody | anti-BAFF antibody

Rabbit Polyclonal (IgG) to Human BAFF

CATALOG # AAA12314	HOST Rabbit	REACTIVITY Human, Mouse	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

BAFF; Polyclonal Antibody; Rabbit Polyclonal (IgG) to Human BAFF; TNFSF13B; B-cell-activating factor; ApoL related ligand TALL-1; B-lymphocyte stimulator; CD257; BLYS; Delta4 BAFF; Delta BAFF; TALL-1; TALL1; ZTNF4; THANK; B lymphocyte stimulator; CD257 antigen; TNFSF20; anti-BAFF antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	A C-terminal peptide corresponding to amino acids 254-269 of human BLYS.
Purity/Purification	Protein G Purified
Form/Format	PBS, 0.05% BSA, 0.05% sodium azide.
Concentration	0.5 mg/ml (varies by lot)
Sequence Length	285
Applicable Applications for anti-BAFF antibody	IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	IHC-P (10 ug/ml) WB (0.5 - 2 ug/ml) Usage:Immunohistochemistry: AAA12314 was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen. The stained slides were evaluated by a pathologist to confirm staining specificity. The optimal working concentration for AAA12314 was determined to be 10 ug/ml.
Target	BAFF/TNFSF13B
Immunogen Species	Human
Immunogen	BAFF antibody was raised against synthetic peptide from human TNFSF13B/BAFF.
Family/Subfamily	TNF/not assigned-TNF
Antigen Type	Synthetic Peptide
Epitope	aa254-269
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol

The following protocol is a recommendation only, and We makes no guarantee of the results:

Tissue Preparation:
Formalin fixation and embedding in paraffin wax.

Tissue Sectioning:
Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C.

Deparaffinization:
Wash dry slides in 3 changes of xylene - 5 minutes each @ RT

Rehydration:
Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT
Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT
Wash slides in 1 change of 80% alcohol - 3 minutes @ RT
Rinse slides in gentle running distilled water - 5 minutes @ RT

Antigen retrieval:
Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes
Remove from heat and let stand at room temperature in buffer - 20 minutes
Rinse in 1X TBS with Tween (TBST) -1 minute @ RT

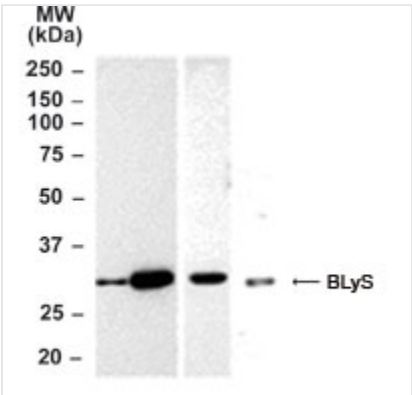
Immunostaining:
(Do not allow tissues to dry at any time during the staining procedure)
Apply a universal protein block - 20 minutes @ RT
Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT
Rinse slides in 1 X TBST - 1 minute @ RT
Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT
Rinse slides in 1X TBST -1 minute @ RT
Apply alkaline phosphatase streptavidin - 30 minutes @ RT
Rinse slides in 1X TBST -1 minute @ RT
Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT
Wash slides in distilled water - 1 minute @ RT

Dehydrate:
(This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB))
Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT
Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT
Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT
Wash slides in 3 changes of xylene - 1 minute each @ RT
Apply coverslip

Preparation and Storage

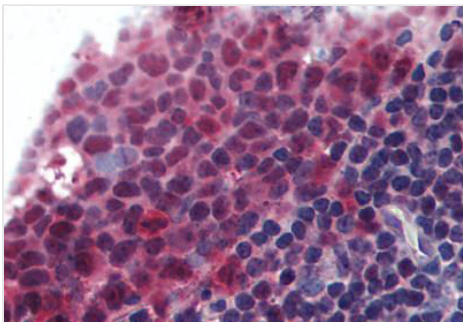
Short term 4 degree C, long term aliquot and store at -20 degree C, avoid freeze thaw cycles.

IMAGES



WB (Western Blot)

Western blot of BAFF/BLyS in mouse and human cell lysates. Lane A: mouse testis, Lane B: mouse thymus, Lane C: mouse spleen, and Lane D: HL-60 cells (human).



IHC (Immunohistochemistry)

Anti-BAFF antibody IHC of human tonsil. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 10 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-BAFF antibody	Simultaneously four different laboratories identified a new member of the tumor necrosis factor (TNF) family. This has been named as TALL-1 (6), THANK (TNF homologue that activates apoptosis, nuclear factor-kappaB, and c-Jun NH2-terminal kinase (5), BAFF (for B cell activating factor belonging to the TNF family) (4) and Blys (B lymphocyte stimulator) (3). Membrane-bound BAFF is processed and secreted through the action of a protease whose specificity matches that of the furin family of proprotein convertases. Secreted BLYS/BAFFITANK acts as a potent B cell growth factor. This protein is expressed abundantly in peripheral blood lymphocytes, specifically in monocytes and macrophages. Its regulation is upregulated by interferon gamma. Overexpression of BLYS/BAFF in transgenic mice lead to increased numbers of mature B and effector T cells. These mice also develop autoimmune like symptoms, such as, high levels of rheumatoid factors, anti-DNA autoantibodies, etc. (2). Recently, two receptors for BLYS/BAFF have been identified and termed as BCMA and TACI (1). Members in the TNF superfamily regulate immune responses and induce apoptosis. A novel member in the TNF family was recently identified by several groups and designated BAFF (for B cell Activating Factor belonging to the TNF Family), BLYS (for B Lymphocyte Stimulator), TALL-1 (for TNF- and ApoL-related Leukocyte-expressed Ligand), and THANK (for TNF Homologue that Activate Apoptosis, NF-kB and c-jun N-terminal Kinase). BAFF/BLYS was characterized as a B cell activator since it induced B cell proliferation and immunoglobulin secretion. Three receptors for BAFF were recently identified and designated TACI, BCMA and BAFF-R. BAFF and its receptors are essential for B cell development, survival, and humoral immune responses. BAFF is involved in the development of autoimmune diseases including systemic lupus erythaematosus and rheumatoid arthritis.
Product Categories/Family for anti-BAFF antibody	Family: TNF

NCBI AND UNIPROT INFORMATION

NCBI GI #	5730097
NCBI GeneID	10673
NCBI Accession #	NP_006564.1
NCBI GenBank Nucleotide #	NM_006573.4
UniProt Accession #	Q9Y275; Q6FHD6; Q7Z5J2; E0ADT7
Molecular Weight	17,578 Da
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 13B isoform 1
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
NCBI Protein Information	tumor necrosis factor ligand superfamily member 13B; delta BAFF; Delta4 BAFF; B-lymphocyte stimulator; B-cell-activating factor; ApoL related ligand TALL-1; TNF homolog that activates apoptosis; dendritic cell-derived TNF-like molecule; tumor necrosis factor-like protein ZTNF4; TNF and ApoL-related leukocyte expressed ligand 1; tumor necrosis factor (ligand) superfamily, member 20
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 13B
UniProt Gene Name	TNFSF13B
UniProt Synonym Gene Names	BAFF; BLYS; TALL1; TNFSF20; ZTNF4; BLYS; TALL-1
UniProt Entry Name	TN13B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/baff-antibody-immunohistochemistry-western-blot-elisa/12314>