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Datasheet for 200-401-G83

BAFF Antibody

Overview

Description:	Anti-BAFF (RABBIT) Antibody - 200-401-G83
Item No.:	200-401-G83
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	BAFF antibody detects human BAFF. 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-alpha;B 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. Anti-BAFF antibodies are ideal for investigators involved in NFkappaB, Cytokine and Growth Factor research.
Synonyms:	BAFF, BLYS, TALL1, TNFSF20, ZTNF4
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TNFSF13B
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	BAFF Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to amino acids near the c-terminus of human BAFF.
Purity/Specificity:	Anti-BAFF Antibody was Ion exchange chromatography purified. A BLAST analysis was used to suggest cross-reactivity with BAFF with Human, Mouse and Rat based on 100% homology with the immunizing sequence. Cross-reactivity with BAFF from other sources has not been determined.
Relevant Links:	• NCBI - NP_001139117.1 • UniProtKB - Q9Y275 • GeneID - 10673

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-BAFF Antibody is tested for use in E, WB, IF, IHC, and ICC. Expect a band approximately ~31.2 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	20 µg/mL
WB:	0.25-1 ug/mL

Formulation

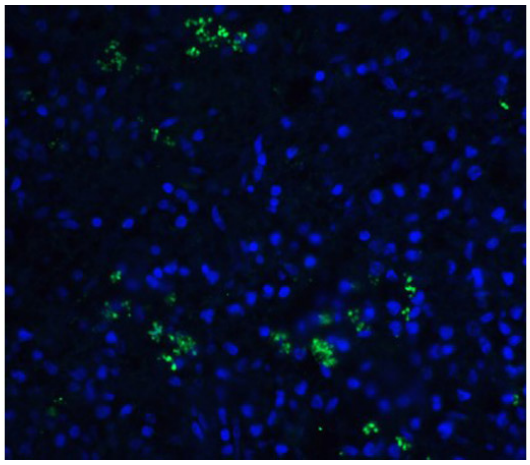
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

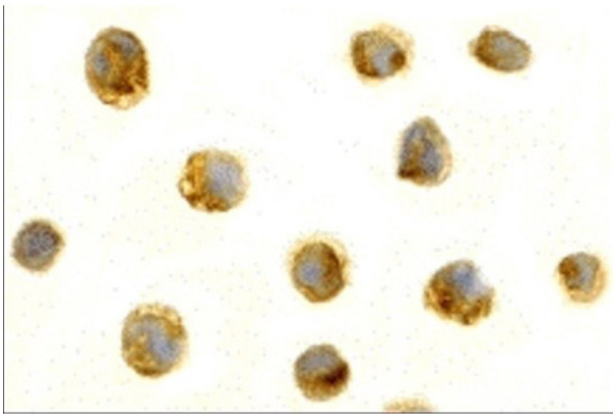
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

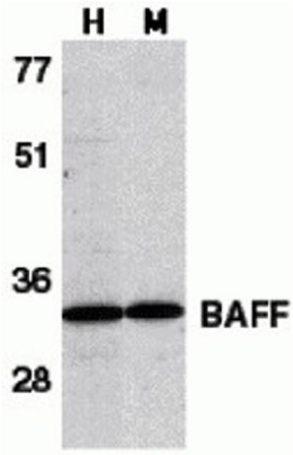
Images



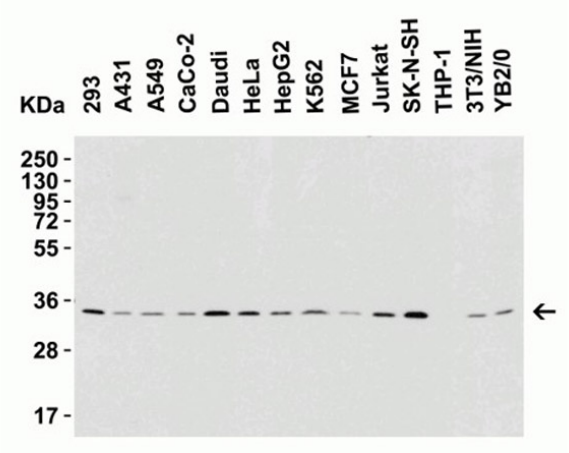
Immunofluorescence Microscopy
Immunofluorescence Validation of BAFF.
Tissue: Human Spleen Tissue.
Fixation: 4% paraformaldehyde-fixed.
Primary Antibody: Anti-BAFF at 20 µg/mL.
Secondary: goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



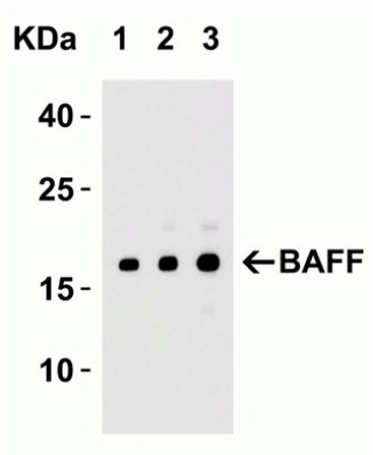
Immunocytochemistry
Immunocytochemistry Validation of BAFF.
Cells: HL60 cells.
Fixation: fixed with formaldehyde and blocked with 10% serum for 1 h at RT.
Antigen retrieval: heat mediation with a citrate buffer (pH6).
Primary Antibody: anti-BAFF antibody at 1 µg/ml overnight at 4°C.
Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.



Western Blot
Western Blot Validation of Anti-BAFF.
Loading: 15 µg of lysates per lane in Human HL60 Cell Lysate (H) and Mouse Spleen Lysate (M).
Primary Antibody: Anti-BAFF at 1µg/mL for 1h at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot Validation of Anti-BAFF.
Load: 15µg Human, Mouse or Rat cell lysates per lane.
Lane 1: 293, Lane 2: A431, Lane 3: A549, Lane 4: CaCo-2, Lane 5: Daudi, Lane 6: HeLa, Lane 7: HepG2, Lane 8: K563, Lane 9: MCF7, Lane 10: Jurkat, Lane 11: SK-N-SH, Lane 12: THP-1, Lane 13: 3T3/NIH, Lane 14: YB2/0.
Primary Antibody: Anti-BAFF at 1µg/mL for 1h at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot Validation of Anti-BAFF with Recombinant Protein.
Load: 30ng of human BAFF recombinant protein per lane.
Primary Antibody: Anti-BAFF at (Lane 1: 0.25 µg/mL; Lane 2: 0.5 µg/mL and Lane 3: 1 µg/mL) for 1h at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Observed at around 18kD.

Disclaimer

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