

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

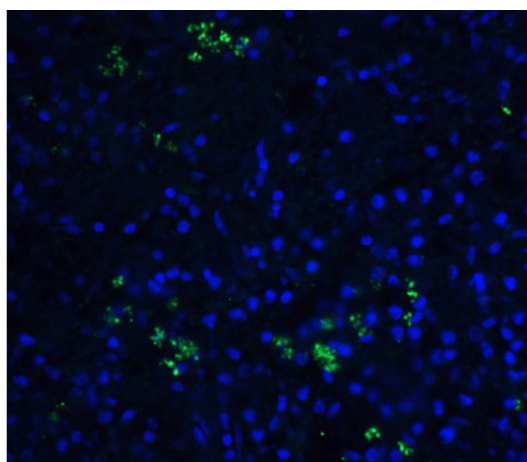
Shipping & Handling

Shipping Condition:	Dry Ice
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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

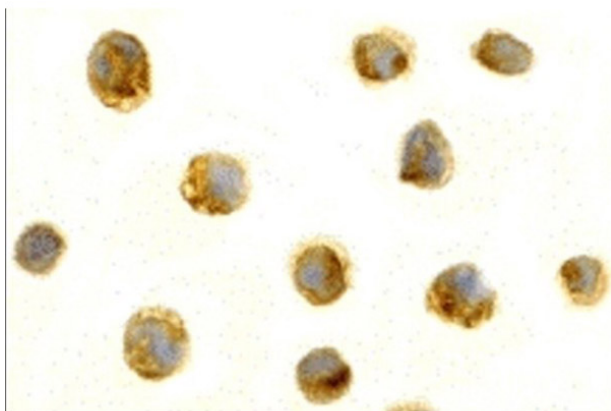
Immunofluorescence Validation of BAFF.

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.

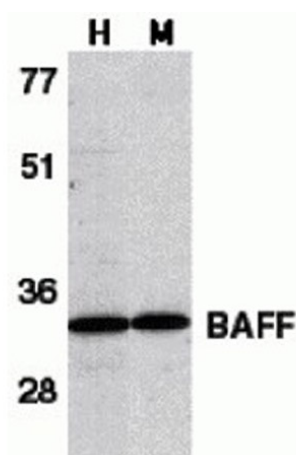
Cells: HL60 cells.

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.



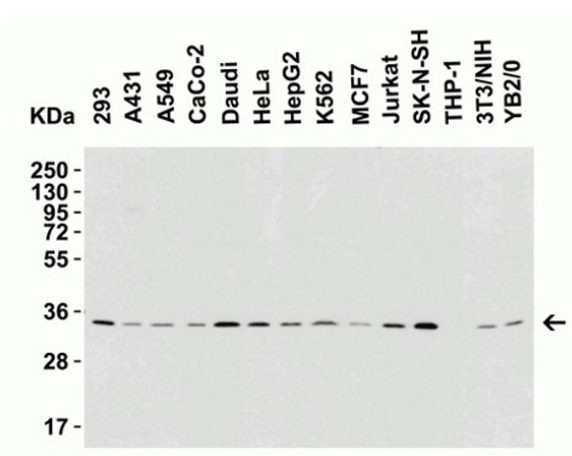
Western Blot

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

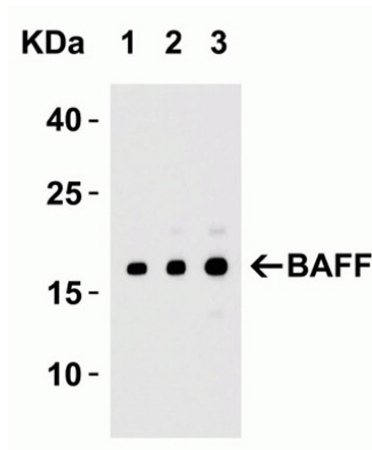
Western Blot Validation of Anti-BAFF.

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/O.

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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.