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Anti-BAFF TNFSF13B Antibody

Catalog Number: A01257-1

About TNFSF13B

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-kappaB 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.

Overview

Product Name	Anti-BAFF TNFSF13B Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-BAFF TNFSF13B Antibody (Catalog # A01257-1). Tested in ELISA, WB, ICC, IF, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	BAFF Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	BAFF antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9Y275

Technical Details

Immunogen	Anti-BAFF antibody was raised against a peptide corresponding to 16 amino acids near the carboxy terminus of human BAFF. The immunogen is located within the last 50 amino acids of BAFF.
Predicted Reactive Species	Bovine
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	BAFF Antibody is Ion exchange chromatography purified.

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Suggested Dilutions	WB: 0.25-1 ug/mL; ICC: 1 ug/mL; IF: 20 ug/mL. Antibody validated: Western Blot in human, mouse and rat samples; Immunocytochemistry in human samples; Immunofluorescence in human samples; Immunohistochemistry in human and mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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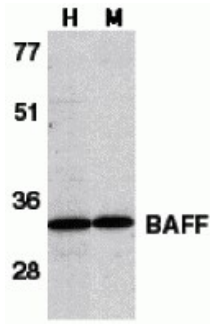
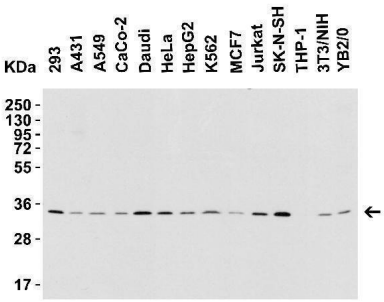
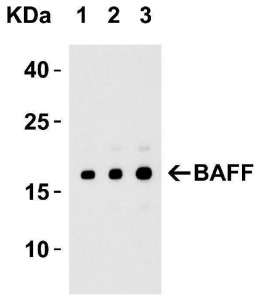
Anti-BAFF TNFSF13B Antibody (A01257-1) Images



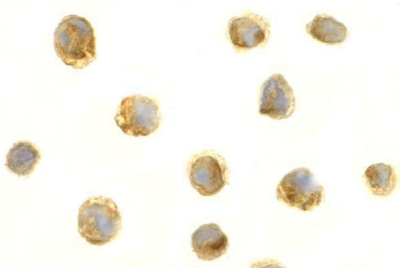
Western Blot Validation in Human HL60 Cell Lysate (H) and Mouse Spleen Lysate (M) Loading: 15 ug of lysates per lane. Antibodies: BAFF A01257-1 (1 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation in Human, Mouse and Rat Cell Lines Loading: 15 ug of lysates per lane. Antibodies: BAFF A01257-1 (1 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation with Recombinant Protein Loading: 30 ng of human BAFF recombinant protein per lane. Antibodies: BAFF A01257-1 (Lane 1: 0.25 ug/mL; Lane 2: 0.5 ug/mL and Lane 3: 1 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Observed at around 18kD.



Immunocytochemistry Validation of BAFF in HL60 Cells Immunocytochemical analysis of HL60 cells using anti-BAFF antibody (A01257-1) at 1 ug/ml. Cells was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4˚C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

Immunofluorescence Validation of BAFF in Human Spleen Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed human spleen tissue labeling BAFF with A01257-1 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).

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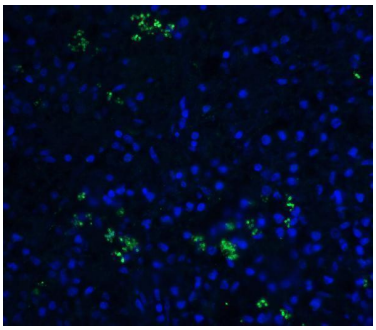
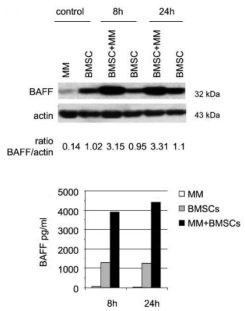
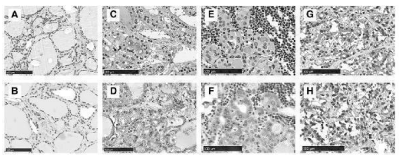
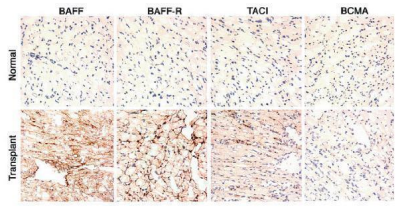




Regulated Expression Validation of BAFF in Myeloma Patients (Tai et al., 2006) Immunoblot analysis was performed to monitor protein expression of BAFF with anti-BAFF antibodies in multiple myeloma cells with or without BMSCs. BAFF expression in cocultures at 8hr or 24hr was up-regulated by ~3.5-fold relative to BMSCs alone.



Immunohistochemistry Validation of BAFF in Thyroid of Patients with Graves' Diseases (Campi et al., 2015) BAFF expression detected by anti-BAFF antibodies (A01257-1) was remarkably increased in thyrocytes from multinodular goiter (C) compared with either Hashimoto's thyroiditis (E) or Graves' disease (G) while no staining was found in normal thyroid tissue (A).



Immunohistochemistry Validation of BAFF in Murine Cardiac Transplants at Rejection (Ye et al., 2004) BAFF expression detected by anti-BAFF antibodies (A01257-1) was upregulated in intragraft leukocytes due to rejection at 7 days after heart transplant.

Anti-BAFF TNFSF13B Antibody

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