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# Anti-BAFF (CT) *BLyS, TALL-1, THANK*

**CATALOG No.:** PX074A SIZE: 100 µg
PX074B SIZE: 0.5 mg

**BACKGROUND:**

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) (1-4). BAFF/BLyS was characterized as a B cell stimulator since it induced B cell proliferation and immunoglobulin secretion (1,2). Two receptors for BAFF were recently identified and designated TACI and BCMA (5). BAFF and its receptors are involved in the development of systemic lupus erythaematosus and other B cell associated autoimmune diseases (5,6). Like TNFa and TRAIL, THANK was shown to activate NF-kB and c-jun N-terminal kinase (JNK) and to induce apoptosis (4).

**SOURCE:**

Rabbit anti-BAFF (CT) polyclonal antibody was raised against a peptide corresponding to amino acids 254 to 269 of human BAFF (1-4).

**APPLICATION:**

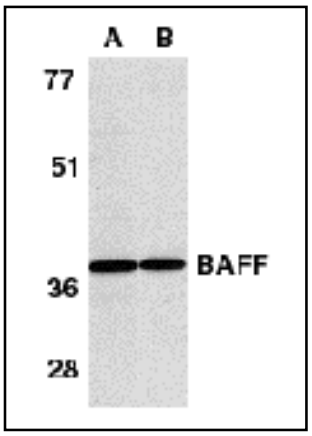
This polyclonal antibody can be used for detection of BAFF by Western blot at 0.25 to 1:g/ml. It is human, mouse and rat reactive. For research use only.

**STORAGE:**

It is supplied as ion exchange chromatography purified IgG, 100:g in 200:l of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year. Azide free antibody is available.

**RELATED PRODUCTS:**

Blocking peptide, 50:g/250:l, is available for competition studies. HL60 cell lysate, 200:g/100:l, is available for positive control.




F in human HL60 cell lysate (A) and murine spleen tissue lysate (B) with anti-BAFF (CT) at 1:g/ml.

**REFERENCES:**

1. Moore PA, Belvedere O, Orr A, et al. BLyS: member of the tumor necrosis factor family and B lymphocyte stimulator. *Science* 1999;285:260-3

2. Schneider P, MacKay F, Steiner V, et al. BAFF, a novel ligand of the tumor necrosis factor family, stimulates B cell growth. *J Exp Med* 1999;189:1747-56

3. Shu HB, Hu WH, Johnson H. TALL-1 is a novel member of the TNF family that is down-regulated by mitogens. *J Leukoc Biol* 1999;65:680-3

4. Mukhopadhyay A, Ni J, Zhai Y, Yu GL, Aggarwal BB. Identification and characterization of a novel cytokine, THANK, a TNF homologue that activates apoptosis, nuclear factor-kappaB, and c-Jun NH2-terminal kinase. *J Biol Chem* 1999;274:15978-81

5. Gross JA, Johnston J, Mudri S, et al. TACI and BCMA are receptors for a TNF homologue implicated in B-cell autoimmune disease. *Nature* 2000;404:995-9

6. Khare SD, Sarosi I, Xia XZ, et al. Severe B cell hyperplasia and autoimmune disease in TALL-1 transgenic mice. *Proc Natl Acad Sci USA* 2000;97:3370-5

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