

Datasheet for ABIN7599976
anti-BAFF antibody (AA 134-277)



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Overview

Quantity:	100 µg
Target:	BAFF (TNFSF13B)
Binding Specificity:	AA 134-277
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BAFF antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-BAFF/TNFSF13B Antibody Picoband®
Immunogen:	E.coli-derived human BAFF/TNFSF13B recombinant protein (Position: A134-T277).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-BAFF/TNFSF13B Antibody Picoband® (ABIN7599976). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	BAFF (TNFSF13B)
Alternative Name:	TNFSF13B (TNFSF13B Products)
Background:	Synonyms: Tumor necrosis factor ligand superfamily member 13B, B lymphocyte stimulator, BLyS, B-cell-activating factor, BAFF, Dendritic cell-derived TNF-like molecule, TNF- and APOL-related leukocyte expressed ligand 1, TALL-1, CD257, Tumor necrosis factor ligand superfamily member 13b, membrane form, Tumor necrosis factor ligand superfamily member 13b, soluble form, TNFSF13B, BAFF, BLYS, TALL1, TNFSF20, ZTNF4, UNQ401, PRO738 Tissue Specificity: Abundantly expressed in peripheral blood Leukocytes and is specifically expressed in monocytes and macrophages. Also found in the spleen, lymph node, bone marrow, T-cells and dendritic cells. A lower expression seen in placenta, heart, lung, fetal liver, thymus, and pancreas. Isoform 2 is expressed in many myeloid cell lines. Background: BAFF was regularly detected by enzyme-linked immunosorbent assay in brain tissue lysates and in normal spinal fluid, and in astrocytes by double fluorescence microscopy. BAFF was localized in astrocytes close to BAFF-R-expressing immune cells. BAFF receptors were strongly expressed in situ in primary central nervous system (CNS) lymphomas.¹ The TNF superfamily member B cell-activating factor (BAFF) plays an important role in humoral immunity and in autoimmune diseases, including RA. Local BAFF gene targeting inhibited proinflammatory cytokine expression, suppressed generation of plasma cells and Th17 cells, and markedly ameliorated joint pathology. The B cell activating factor BAFF (BLyS/TALL-1/zTNF4) is a tumor necrosis factor (TNF)-related ligand that promotes B cell survival and binds to three receptors (BCMA, TACI, and the recently described BAFF-R). Human BAFF was mapped to chromosome 13q32-34. The standard used in this kit is recombinant soluble human BAFF (A134-L295) with the molecular mass of 19.6kDa.
Molecular Weight:	34 kDa
Gene ID:	10673
UniProt:	Q9Y275
Pathways:	NF-kappaB Signaling , Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL Flow Cytometry (Fixed), 1-3 µg/1×10 ⁶ cells ELISA, 0.1-0.5 µg/mL 1. Krumbholz, M., Theil, D., Derfuss, T., Rosenwald, A., Schrader, F., Monoranu, C.-M., Kalled, S.
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Application Details

L., Hess, D. M., Serafini, B., Aloisi, F., Wekerle, H., Hohlfeld, R., Meinl, E. BAFF is produced by astrocytes and up-regulated in multiple sclerosis lesions and primary central nervous system lymphoma. J. Exp. Med. 201: 195-200, 2005. 2. Lam, Q. L. K., Ko, O. K. H., Zheng, B.-J., Lu, L. Local BAFF gene silencing suppresses Th17-cell generation and ameliorates autoimmune arthritis. Proc. Nat. Acad. Sci. 105: 14993-14998, 2008. 3. Schiemann, B., Gommerman, J. L., Vora, K., Cachero, T. G., Shulga-Morskaya, S., Dobles, M., Frew, E., Scott, M. L. An essential role for BAFF in the normal development of B cells through a BCMA-independent pathway. Science 293: 2111-2114, 2001. 4. Schneider, P., MacKay, F., Steiner, V., Hofmann, K., Bodmer, J. L., Holler, N., Ambrose, C., Lawton, P., Bixler, S., Acha-Orbea, H., Valmori, D., Romero, P., Werner-Favre, C., Zubler, R. H., Browning, J. L., Tschopp, J. BAFF, a novel ligand of the tumor necrosis factor family, stimulates B cell growth. J. Exp. Med. 189: 1747-1756, 1999.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.