

Product Specification Sheet

B cell-activating factor receptor (BAFF-R) Antibodies

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|--|---|---------------------|
| <input type="checkbox"/> Cat. # BAFFR11-M | Mouse Monoclonal B cell-activating factor receptor (BAFF-R) IgG | SIZE: 100 ug |
| <input type="checkbox"/> Cat. # BAFFR11-C | Recombinant human BAFF-R protein control for Western blot | SIZE: 100 ul |

BAFF receptor (B-cell activating factor receptor, **BAFF-R**), also known as tumor necrosis factor receptor superfamily member 13C (TNFRSF13C), is a 185-aa protein that is encoded by the TNFRSF13C gene. BAFF-R, a type III membrane protein containing a single extracellular phenylalanine-rich domain, belongs to the TNF receptor superfamily which recognizes BAFF. It is the principal receptor required for BAFF-mediated mature B-cell survival. **BAFF** is also known as B Lymphocyte Stimulator (BLYS) and TNF- and APOL-related leukocyte expressed ligand (TALL-1) and the Dendritic cell-derived TNF-like molecule (CD257 antigen; cluster of differentiation 257).

BAFF (285-aa) is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for receptors TNFRSF13B/TACI, TNFRSF17/BCMA, and TNFRSF13C/BAFF-R. This cytokine is expressed in B cell lineage cells, and acts as a potent B cell activator. It has been also shown to play an important role in the proliferation and differentiation of B cells. The transmembrane form can be cleaved from the membrane, generating a soluble protein fragment. BAFF is the natural ligand of three unusual tumor necrosis factor receptors named BAFF-R (BR3), TACI (transmembrane activator and calcium modulator and cyclophilin ligand interactor), and BCMA (B-cell maturation antigen), all of which have differing binding affinities for it. These receptors are expressed mainly on mature B lymphocytes and their expression varies in dependence of B cell maturation (TACI is also found on a subset of T-cells and BCMA on plasma cells). BAFF-R is involved in the positive regulation during B cell development. TACI binds worst since its affinity is higher for a protein similar to BAFF, called a proliferation-inducing ligand (APRIL). BCMA displays an intermediate binding phenotype and will work with either BAFF or APRIL to varying degrees. Signaling through BAFF-R and BCMA stimulates B lymphocytes to undergo proliferation and to counter apoptosis. All these ligands act as homotrimers (i.e. three of the same molecule) interacting with homotrimeric receptors,[6] although BAFF has been known to be active as either a hetero- or homotrimer (can aggregate into 60-mer depending on the primary structure of the protein).

Tumor necrosis factor receptor superfamily member 13C
Alternative name(s):
B-cell-activating factor receptor, BAFF receptor
Short name: BAFF-R, BLYS receptor 3, CD_antigen: CD268

Source of Antigen and Antibodies

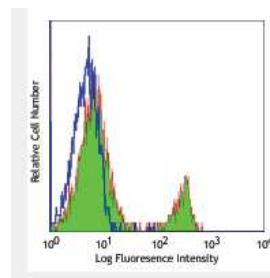
| | |
|------------------------|--|
| Antigen | BAFF-R-L1.2 transfectants |
| Ab Host/type | Mouse monoclonal IgG1k purified (designated BAFFR11-M, supplied in PBS, pH 7.4, 0.01% azide) |
| 2-Ab | Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available) |
| -ve control IgG | Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control |

#BAFFR11-C, Western control

Human BAFFR protein extracellular domain (76-aa) for Western blot +ve control (**Cat # COX21-C**) was expressed in E. coli (>95%, 7.7 kda). It is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of **BAFFR11-C** for good visibility with antibody Cat # **BAFFR11-M**. Store at -20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should redissolve by warming before taking it from the stock. It should be heated once prior to loading on gels. If the product has been stored for several weeks, then it may be preferable to add 5 ul of fresh 2x sample buffer per 10 ul of the **BAFFR11-C** solution prior to heating and loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. This preparation is intended for qualitative purpose and not to serve as standard of known concentration. Do not freeze, thaw, or heat repeatedly

Suggested antibody Dilutions

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|---------------|---------------|
| ELISA/Western | 1:1000-1:5000 |
| IHC: | 1:500-1:2000 |



Flow 0.1-0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

General References: Thompson JS (2001) Science 293, 2108; Ng LG (2004) J. Immunol. 173, 807; Rodig SJ (2005) Human Pathol. 36, 1113, Kayagaki N (2002) Immunity 17, 515.

*This product is for In vitro research use only.

Other Related Items from ADI

RP-1626 Recombinant (E.Coli) Human BAFF receptor (BAFFR) (>95%) active

RP-1619 Recombinant (E.Coli) Human BAFF/CD257 (BLYS, TALL1, THANK, TNFSF20) protein, pure
BAFFR11-M Mouse monoclonal anti-human B cell-activating factor receptor (BAFF-R) IgG

BAFFR11-C Recombinant human BAFF-R protein control for Western blot

BAFFR11-M-BAFF-Receptor-Antibody 150910A

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