BAFF-R (FL-175): sc-28989



The Power to Question

BACKGROUND

TNF cytokine family member TALL-1 (also designated BAFF, zTNF4, THANK and BLYS) is a type II membrane protein that shares characteristics with other members of the tumor necrosis factor (TNF) cytokine family. TALL-1 has the ability to bind to three receptors, TACI, BCMA and BAFF-R, but unlike other TNF receptors, BAFF-R specifically binds only the TALL-1 ligand. The gene encoding human BAFF-R, which maps to chromosome 22q13.1-q13.31, is expressed at high levels in spleen and lymph nodes and at lower levels in peripheral blood leukocytes and thymus. Expression of BAFF-R is crucial for selecting transitional B cells into the mature B cell pool.

REFERENCES

- Schneider, P., et al. 1999. BAFF, a novel ligand of the tumor necrosis factor family, stimulates B cell growth. J. Exp. Med. 189: 1747-1756.
- Moore, P.A., et al. 1999. BLYS: member of the tumor necrosis factor family and B lymphocyte stimulator. Science 285: 260-263.
- Mukhopadhyay, A., et al. 1999. Identification and characterization of a novel cytokine, THANK, a TNF homologue that activates apoptosis, nuclear factor-B, and c-Jun NH₂-terminal kinase. J. Biol. Chem. 274: 15978-15981.
- Waldschmidt, T.J. and Noelle, R.J. 2001. Immunology. Long live the mature B cell—a baffling mystery resolved. Science 293: 2012-2013.
- Thompson, J.S., et al. 2001. BAFF-R, a newly identified TNF receptor that specifically interacts with BAFF. Science 293: 2108-2111.

CHROMOSOMAL LOCATION

Genetic locus: Tnfrsf13c (mouse) mapping to 15 E1.

SOURCE

BAFF-R (FL-175) is a rabbit polyclonal antibody raised against amino acids 1-175 (deletion 118-128) representing full length BAFF-R of mouse origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

BAFF-R (FL-175) is recommended for detection of BAFF-R of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for BAFF-R siRNA (m): sc-40232, BAFF-R shRNA Plasmid (m): sc-40232-SH and BAFF-R shRNA (m) Lentiviral Particles: sc-40232-V.

Molecular Weight of BAFF-R monomer: 19 kDa.

Molecular Weight of BAFF-R dimer: 40 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

SELECT PRODUCT CITATIONS

- Li, P.P., et al. 2012. BAFF/BAFF-R involved in antibodies production of rats with collagen-induced arthritis via PI3K-Akt-mTOR signaling and the regulation of paeoniflorin. J. Ethnopharmacol. 141: 290-300.
- Wu, H., et al. 2014. Equine adipose-derived stem cell (ASC) expresses BAFF and its receptors, which may be associated with the differentiation process of ASC towards adipocyte. Int. Immunopharmacol. 18: 365-372.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **BAFF-R (H-1):** sc-365410 or **BAFF-R (F-3):** sc-365610, our highly recommended monoclonal alternatives to BAFF-R (FL-175).

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