

# BAFF-R (H-1): sc-365410

## 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 22q13.2, 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.

## CHROMOSOMAL LOCATION

Genetic locus: TNFRSF13C (human) mapping to 22q13.2; Tnfrsf13c (mouse) mapping to 15 E1.

## SOURCE

BAFF-R (H-1) is a mouse monoclonal antibody raised against amino acids 22-184 of BAFF-R of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>2b</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

BAFF-R (H-1) is available conjugated to agarose (sc-365410 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-365410 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-365410 PE), fluorescein (sc-365410 FITC), Alexa Fluor® 488 (sc-365410 AF488), Alexa Fluor® 546 (sc-365410 AF546), Alexa Fluor® 594 (sc-365410 AF594) or Alexa Fluor® 647 (sc-365410 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-365410 AF680) or Alexa Fluor® 790 (sc-365410 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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## APPLICATIONS

BAFF-R (H-1) is recommended for detection of BAFF-R of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 (h): sc-40231, BAFF-R siRNA (m): sc-40232, BAFF-R shRNA Plasmid (h): sc-40231-SH, BAFF-R shRNA Plasmid (m): sc-40232-SH, BAFF-R shRNA (h) Lentiviral Particles: sc-40231-V and BAFF-R shRNA (m) Lentiviral Particles: sc-40232-V.

Molecular Weight of BAFF-R monomer: 19 kDa.

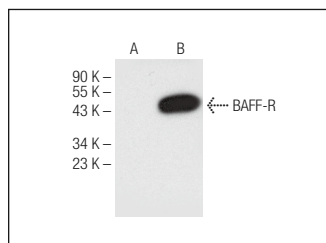
Molecular Weight of BAFF-R dimer: 40 kDa.

Positive Controls: BAFF-R (h): 293 Lysate: sc-128078 or human spleen extract: sc-363779.

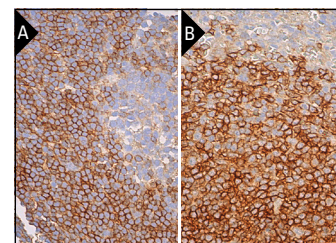
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

## DATA



BAFF-R (H-1): sc-365410. Western blot analysis of BAFF-R expression in non-transfected: sc-110760 (A) and human BAFF-R transfected: sc-128078 (B) 293 whole cell lysates.



BAFF-R (H-1): sc-365410. Immunoperoxidase staining of formalin fixed, paraffin-embedded human tonsil tissue showing membrane staining of subset of cells in germinal center and cells in non-germinal center (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human spleen tissue showing membrane staining of cells in white pulp (B).

## SELECT PRODUCT CITATIONS

- Warakomska, M., et al. 2021. The effects of BAFF and APRIL signaling on non-small cell lung cancer cell proliferation and invasiveness. *Oncol. Lett.* 22: 728.
- Sevdali, E., et al. 2022. BAFF-R activates PI3K/AKT signaling in human naive but not in switched memory B cells through direct interactions with B cell antigen receptors. *Cell Rep.* 39: 111019.

## 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](http://www.scbt.com) for detailed protocols and support products.