

BAFF-R (h): 293 Lysate: sc-128078

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.

REFERENCES

1. 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. and Tschopp, J. 1999. BAFF, a novel ligand of the tumor necrosis factor family, stimulates B cell growth. *J. Exp. Med.* 189: 1747-1756.
2. Moore, P.A., Belvedere, O., Orr, A., Pieri, K., LaFleur, D.W., Feng, P., Sopet, D., Charters, M., Gentz, R., Parmelee, D., Li, Y., Galperina, O., Giri, J., Roschke, V., Nardelli, B., Carrell, J., Sosnovtseva, S., Greenfield, W., Ruben, S.M., Olsen, H.S., Fikes, J. and Hilbert, D.M. 1999. BLYS: member of the tumor necrosis factor family and B lymphocyte stimulator. *Science* 285: 260-263.
3. Mukhopadhyay, A., Ni, J., Zhai, Y., Yu, G.L. and Aggarwal, B.B. 1999. Identification and characterization of a novel cytokine, THANK, a TNF homologue that activates apoptosis, nuclear factor- κ B, and c-Jun NH₂-terminal kinase. *J. Biol. Chem.* 274: 15978-15981.
4. Waldschmidt, T.J. and Noelle, R.J. 2001. Immunology. Long live the mature B cell—a baffling mystery resolved. *Science* 293: 2012-2013.
5. Thompson, J.S., Bixler, S.A., Qian, F., Vora, K., Scott, M.L., Cachero, T.G., Hession, C., Schneider, P., Sizing, I.D., Mullen, C., Strauch, K., Zafari, M., Benjamin, C.D., Tschopp, J., Browning, J.L. and Ambrose, C. 2001. BAFF-R, a newly identified TNF receptor that specifically interacts with BAFF. *Science* 293: 2108-2111.

CHROMOSOMAL LOCATION

Genetic locus: TNFRSF13C (human) mapping to 22q13.2.

PRODUCT

BAFF-R (h): 293 Lysate represents a lysate of human BAFF-R transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

BAFF-R (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive BAFF-R antibodies. Recommended use: 10-20 µl per lane.

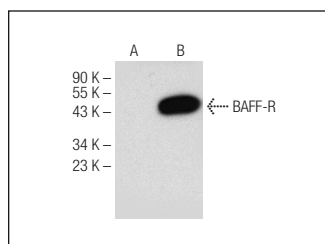
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

BAFF-R (H-1): sc-365410 is recommended as a positive control antibody for Western Blot analysis of enhanced human BAFF-R expression in BAFF-R transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

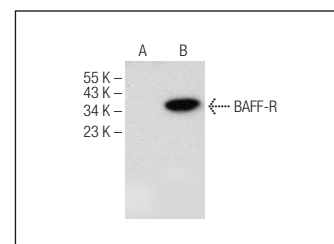
RECOMMENDED SUPPORT REAGENTS

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.

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 (B-3): sc-365409. 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.

RESEARCH USE

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