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TALL-1 (h): 293T Lysate: sc-176656

BACKGROUND

TNF cytokine family member TALL-1 (also designated BAFF, 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 is expressed abundantly in peripheral blood leukocytes, monocytes and macrophages. TALL-1 is critically involved in the regulation of infections, inflammation, autoimmune diseases and tissue homeostasis. TALL-1 is a potent B cell stimulatory factor which is functionally involved in B cell proliferation and may be a primary mediator in B cell-associated autoimmune diseases. The C-terminal extracellular domain has β jelly roll topography and is important in ligand trimerization. The binding of the ligand to its respective receptor induces oligomerization, initiating downstream signaling events. Intrinsic to oligomerization is the formation of the receptor binding site at the junction between neighboring subunits, creating a multivalent ligand.

REFERENCES

1. Smith, C.A., et al. 1994. The TNF receptor superfamily of cellular and viral proteins: activation, costimulation and death. *Cell* 76: 959-962.
2. Hahne, M., et al. 1998. APRIL, a new ligand of the tumor necrosis factor family, stimulates tumor cell growth. *J. Exp. Med.* 188: 1185-1190.
3. 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.
4. Moore, P.A., et al. 1999. BLYS: member of the tumor necrosis factor family and B lymphocyte stimulator. *Science* 285: 260-263.
5. Mukhopadhyay, A., et al. 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.
6. Shu, H.B., et al. 1999. TALL-1 is a novel member of the TNF family that is downregulated by mitogens. *J. Leukoc. Biol.* 65: 680-683.

CHROMOSOMAL LOCATION

Genetic locus: TNFSF13B (human) mapping to 13q33.3.

PRODUCT

TALL-1 (h): 293T Lysate represents a lysate of human TALL-1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

TALL-1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive TALL-1 antibodies. Recommended use: 10-20 μ l per lane.

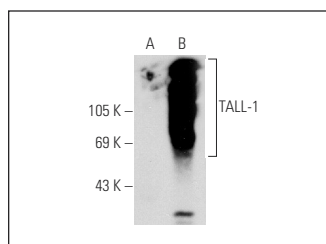
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TALL-1 (B-6): sc-271198 is recommended as a positive control antibody for Western Blot analysis of enhanced human TALL-1 expression in TALL-1 transfected 293T 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-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



TALL-1 (B-6): sc-271198. Western blot analysis of TALL-1 expression in non-transfected: sc-117752 (A) and human TALL-1 transfected: sc-176656 (B) 293T whole cell lysates.

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.