

LT β R (H-82): sc-98787

BACKGROUND

Tumor necrosis factor (TNF) is a pleiotropic cytokine whose function is mediated by two distinct cell surface receptors, designated TNF-R1 and TNF-R2, which are expressed on most cell types. TNF function is primarily mediated through TNF-R1 signaling. Both receptors belong to the growing TNF receptor superfamily which includes FAS antigen, CD40 and lymphotoxin β receptor (LT β R). LT β R is activated upon association with the heterotrimeric lymphotoxin LT- α_1/β_2 , resulting in NF κ B activation and the initiation of apoptosis. LT β R is expressed on the surface of most cell types, excluding T and B lymphocytes, and is involved in lymphoid organ development.

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. Crowe, P.D., et al. 1994. A lymphotoxin β -specific receptor. *Science* 264: 707-710.
3. Nagata, S. and Golstein, P. 1995. The FAS death factor. *Science* 267: 1449-1456.
4. Ware, C.F., et al. 1995. The ligands and receptor of the lymphotoxin system. *Curr. Top. Microbiol. Immunol.* 198: 175-218.

CHROMOSOMAL LOCATION

Genetic locus: LTBR (human) mapping to 12p13.31.

SOURCE

LT β R (H-82) is a rabbit polyclonal antibody raised against amino acids 249-330 mapping within an internal region of LT β R of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

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

APPLICATIONS

LT β R (H-82) is recommended for detection of LT β R of human 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 LT β R siRNA (h): sc-40241, LT β R shRNA Plasmid (h): sc-40241-SH and LT β R shRNA (h) Lentiviral Particles: sc-40241-V.

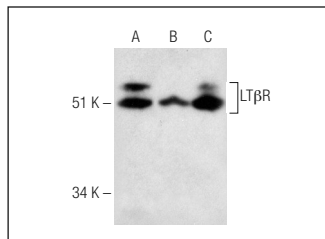
Molecular Weight of LT β R: 55-60 kDa.

Positive Controls: HuT 78 whole cell lysate: sc-2208, K-562 whole cell lysate: sc-2203 or HEL 92.1.7 cell lysate: sc-2270

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.

DATA



LT β R (H-82): sc-98787. Western blot analysis of LT β R expression in HuT 78 (A), K-562 (B) and HEL 92.1.7 (C) whole cell lysates.

STORAGE

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

PROTOCOLS

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

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Try **LT β R (H-2): sc-398929** or **LT β R (31G4D8): sc-53716**, our highly recommended monoclonal alternatives to LT β R (H-82).