

LT β R (W-15): sc-8377

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. Crowe, P.D., VanArsdale, T.L., Walter, B.N., Ware, C.F., Hession, C., Ehrenfels, B., Browning, J.L., Din, W.S., Goodwin, R.G. and Smith, C.A. 1994. A lymphotoxin- β -specific receptor. *Science* 264: 707-710.
2. Smith, C.A., Farrah, T. and Goodwin, R.G. 1994. The TNF Receptor superfamily of cellular and viral proteins: activation, costimulation, and death. *Cell* 76: 959-962.
3. Nagata, S. and Golstein, P. 1995. The FAS death factor. *Science* 267: 1449-1456.
4. Ware, C.F., VanArsdale, T.L., Crowe, P.D. and Browning, J.L. 1995. The ligands and receptor of the lymphotoxin system. *Curr. Top. Microbiol. Immunol.* 198: 175-218.
5. VanArsdale, T.L., VanArsdale, S.L., Force, W.R., Walter, B.N., Mosialos, G., Kieff, E., Reed, J.C. and Ware, C.F. 1997. Lymphotoxin- β receptor signaling complex: role of tumor necrosis factor receptor-associated factor 3 recruitment in cell death and activation of nuclear factor κ B. *Proc. Natl. Acad. Sci. USA* 94: 2460-2465.

CHROMOSOMAL LOCATION

Genetic locus: LTBR (human) mapping to 12p13.31; Ltbr (mouse) mapping to 6 F3.

SOURCE

LT β R (W-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of LT β R of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-8377 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

LT β R (W-15) is recommended for detection of LT β R of mouse, rat and human origin 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 siRNA (h): sc-40242, LT β R shRNA Plasmid (h): sc-40241-SH, LT β R shRNA Plasmid (h): sc-40241-SH, LT β R shRNA (h) Lentiviral Particles: sc-40241-V and LT β R shRNA (h) Lentiviral Particles: sc-40241-V.

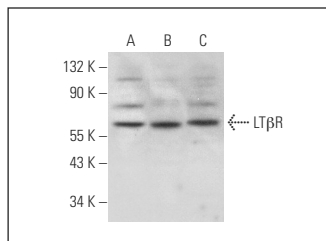
Molecular Weight of LT β R: 55-60 kDa.

Positive Controls: AMJ2-C8 whole cell lysate: sc-364366.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



LT β R (W-15): sc-8377. Western blot analysis of LT β R expression in HuT 78 (A), AMJ2-C8 (B) and K-562 (C) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Aebischer, J., Cassina, P., Otsmane, B., Moumen, A., Seilhean, D., Meininger, V., Barbeito, L., Pettmann, B. and Raoul, C. 2011. IFN γ triggers a LIGHT-dependent selective death of motoneurons contributing to the non-cell-autonomous effects of mutant SOD1. *Cell Death Differ.* 18: 754-768.

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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 (W-15).