

TRAF5 (m): 293T Lysate: sc-124243

BACKGROUND

TRAF5 is a member of the TNF receptor-associated factor (TRAF) protein family. TRAF proteins are associated with, and mediate signal transduction from, members of the TNF receptor superfamily. TRAF5 is one of the components of a complex associated with the CD40 cytoplasmic domain, which mediates TNF-induced NF κ B activation and protection from cell death. TRAF5 influences signaling events by other receptors including CD27, CD30 and lymphotoxin- β receptor. TRAF5 plays a role in osteoclastogenesis. Two alternatively spliced transcript variants encoding the same protein have been reported. The tumor necrosis factor (TNF) receptor superfamily is composed of several type I integral membrane glycoproteins that exhibit homology in their cysteine-rich extracellular domains.

REFERENCES

1. Nakano, H., et al. 1996. TRAF5, an activator of NF κ B and putative signal transducer for the lymphotoxin- β receptor. *J. Biol. Chem.* 271: 14661-14664.
2. Ishida, T.K., et al. 1996. TRAF5, a novel tumor necrosis factor receptor-associated factor family protein, mediates CD40 signaling. *Proc. Natl. Acad. Sci. USA* 93: 9437-9442.
3. Nakano, H., et al. 1997. Human TNF receptor-associated factor 5 (TRAF5): cDNA cloning, expression and assignment of the TRAF5 gene to chromosome 1q32. *Genomics* 42: 26-32.
4. Mizushima, S., et al. 1998. Cloning and characterization of a cDNA encoding the human homolog of tumor necrosis factor receptor-associated factor 5 (TRAF5). *Gene* 207: 135-140.
5. Nakano, H., et al. 1999. Targeted disruption of TRAF5 gene causes defects in CD40- and CD27-mediated lymphocyte activation. *Proc. Natl. Acad. Sci. USA* 96: 9803-9808.
6. Tada, K., et al. 2001. Critical roles of TRAF2 and TRAF5 in tumor necrosis factor-induced NF κ B activation and protection from cell death. *J. Biol. Chem.* 276: 36530-36534.
7. Horie, R., et al. 2002. Cytoplasmic aggregation of TRAF2 and TRAF5 proteins in the Hodgkin-Reed-Sternberg cells. *Am. J. Pathol.* 160: 1647-1654.

CHROMOSOMAL LOCATION

Genetic locus: Traf5 (mouse) mapping to 1 H6.

PRODUCT

TRAF5 (m): 293T Lysate represents a lysate of mouse TRAF5 transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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

TRAF5 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive TRAF5 antibodies. Recommended use: 10-20 μ l per lane.

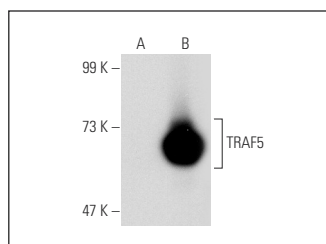
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TRAF5 (E-4): sc-74502 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse TRAF5 expression in TRAF5 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



TRAF5 (E-4): sc-74502. Western blot analysis of TRAF5 expression in non-transfected: sc-117752 (A) and mouse TRAF5 transfected: sc-124243 (B) 293T whole cell lysates.

RESEARCH USE

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