

TRAF3 (H-20): sc-948

BACKGROUND

Tumor necrosis factor (TNF)-activated cell signaling is mediated primarily through the TNF receptor 1 (TNF-R1) and, to a lesser extent, TNF-R2. Both TNF receptors are members of the expanding TNF receptor superfamily which includes the FAS antigen and CD40. Potential insight into an understanding of TNF receptor-mediated signaling was provided by the identification of two related proteins, TRAF1 and TRAF2 (for TNF receptor-associated factors 1 and 2, respectively). Both function to form heterodimeric complexes and associate with the cytoplasmic domain of TNF-R2. A third member of this protein family, alternatively designated CD40 bp, CRAF1, LAP1 or TRAF3, has been identified and shown to associate with the cytoplasmic domain of CD40. The similarity between a specific region of TRAF3 with regions of TRAF1 and TRAF2 define a "TRAF-C" domain that is necessary and sufficient for CD40 binding and homodimerization.

CHROMOSOMAL LOCATION

Genetic locus: TRAF3 (human) mapping to 14q32.32; Traf3 (mouse) mapping to 12 F1.

SOURCE

TRAF3 (H-20) is available as either rabbit (sc-948) or goat (sc-948-G) polyclonal affinity purified antibody raised against a peptide mapping at the N-terminus of TRAF3 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-948 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as phycoerythrin conjugate for flow cytometry, sc-948 PE, 100 tests.

APPLICATIONS

TRAF3 (H-20) is recommended for detection of TRAF3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500), flow cytometry (1 µg per 1 x 10⁶ cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). TRAF3 (H-20) is also recommended for detection of TRAF3 in additional species, including equine and canine.

Suitable for use as control antibody for TRAF3 siRNA (h): sc-29510, TRAF3 siRNA (m): sc-36712, TRAF3 shRNA Plasmid (h): sc-29510-SH, TRAF3 shRNA Plasmid (m): sc-36712-SH, TRAF3 shRNA (h) Lentiviral Particles: sc-29510-V and TRAF3 shRNA (m) Lentiviral Particles: sc-36712-V.

Molecular Weight of TRAF3: 65 kDa.

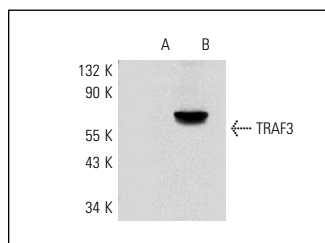
STORAGE

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

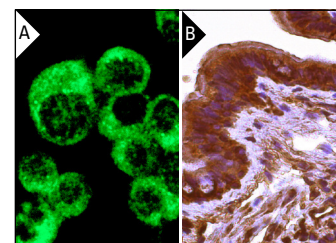
RESEARCH USE

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

DATA



TRAF3 (H-20)-G: sc-948-G. Western blot analysis of TRAF3 expression in control (A) and TRAF3 transfected (B) whole cell lysates.



TRAF3 (H-20): sc-948. Immunofluorescence staining of methanol-fixed TRAF3-transfected NIH/3T3 cells showing cytoplasmic localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human lung tissue showing cytoplasmic staining of respiratory epithelial cells (B).

SELECT PRODUCT CITATIONS

- Devergne, O., et al. 1996. Association of TRAF1, TRAF2 and TRAF3 with an Epstein-Barr virus LMP1 domain important for B lymphocyte transformation: role in NFκB activation. *Mol. Cell. Biol.* 16: 7098-7108.
- Tamassia, N., et al. 2007. The MYD88-independent pathway is not mobilized in human neutrophils stimulated via TLR4. *J. Immunol.* 178: 7344-7356.
- Bista, P., et al. 2010. TRAF3 controls activation of the canonical and alternative NFκB by the lymphotoxin β receptor. *J. Biol. Chem.* 285: 12971-12978.
- Doyon, P. and Servant, M.J. 2010. Tumor necrosis factor receptor-associated factor-6 and ribosomal S6 kinase intracellular pathways link the angiotensin II AT1 receptor to the phosphorylation and activation of the IκB kinase complex in vascular smooth muscle cells. *J. Biol. Chem.* 285: 30708-30718.
- Ganeff, C., et al. 2011. Induction of the alternative NFκB pathway by lymphotoxin αβ (LTαβ) relies on internalization of LTβ receptor. *Mol. Cell. Biol.* 31: 4319-4334.
- Inomata, M., et al. 2012. Regulation of Toll-like receptor signaling by NDP52-mediated selective autophagy is normally inactivated by A20. *Cell. Mol. Life Sci.* 69: 963-979.
- Zhao, W., et al. 2012. E3 ubiquitin ligase tripartite motif 38 negatively regulates TLR-mediated immune responses by proteasomal degradation of TNF receptor-associated factor 6 in macrophages. *J. Immunol.* 188: 2567-2574.

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