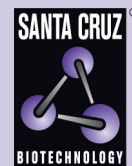


TRAF3 (M-20): sc-947



The Power to Question

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 (mouse) mapping to 12 F1.

SOURCE

TRAF3 (M-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of TRAF3 of mouse 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-947 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-947 PE, 100 tests.

Available as Alexa Fluor® 405 (sc-947 AF405), Alexa Fluor® 488 (sc-947 AF488) or Alexa Fluor® 647 (sc-947 AF647) conjugates for flow cytometry or immunofluorescence; 100 µg/2 ml.

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APPLICATIONS

TRAF3 (M-20) is recommended for detection of TRAF3 of mouse and rat 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).

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

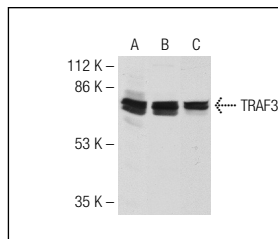
Molecular Weight of TRAF3: 65 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

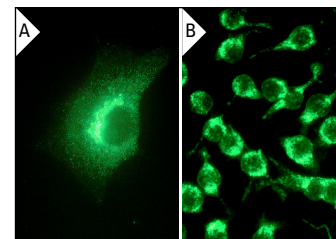
STORAGE

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

DATA



Western blot analysis of TRAF3 expression in TRAF3 transfected NIH/3T3 cells (A-C). Antibodies tested include TRAF3 (M-20): sc-947 (A), TRAF3 (C-20): sc-949 (B) and TRAF3 (M-51): sc-1574 (C).



TRAF3 (M-20): sc-947. Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing cytoplasmic localization using indirect FITC (A) staining and HeLa cells using direct Alexa Fluor® 488 (B) staining.

SELECT PRODUCT CITATIONS

- Izbzan, K.F., et al. 2000. Expression of the tumor necrosis factor receptor-associated factors (TRAFs) 1 and 2 is a characteristic feature of Hodgkin and Reed-Sternberg cells. *Mod. Pathol.* 13: 1324-1331.
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- Iizuka, D., et al. 2007. Purvalanol A enhances cell killing by inhibiting up-regulation of Cdc2 kinase activity in tumor cells irradiated with high doses of X rays. *Radiat. Res.* 167: 563-571.
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- Fang, D.F., et al. 2014. NEDD4 ubiquitinates TRAF3 to promote CD40-mediated AKT activation. *Nat. Commun.* 5: 4513.
- Liu, S., et al. 2014. A microRNA 221- and 222-mediated feedback loop maintains constitutive activation of NFκB and STAT3 in colorectal cancer cells. *Gastroenterology* 147: 847-859.

RESEARCH USE

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



Try **TRAF3 (G-6): sc-6933**, our highly recommended monoclonal alternative to TRAF3 (M-20). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **TRAF3 (G-6): sc-6933**.