

# TRAF2 (N-19): sc-877

## 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: TRAF2 (human) mapping to 9q34.3; Traf2 (mouse) mapping to 2 A3.

## SOURCE

TRAF2 (N-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of TRAF2 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-877 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TRAF2 (N-19) is recommended for detection of TRAF2 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TRAF2 (N-19) is also recommended for detection of TRAF2 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for TRAF2 siRNA (h): sc-29509, TRAF2 siRNA (m): sc-36711, TRAF2 shRNA Plasmid (h): sc-29509-SH, TRAF2 shRNA Plasmid (m): sc-36711-SH, TRAF2 shRNA (h) Lentiviral Particles: sc-29509-V and TRAF2 shRNA (m) Lentiviral Particles: sc-36711-V.

Molecular Weight of TRAF2: 50 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, A-431 whole cell lysate: sc-2201 or WEHI-231 whole cell lysate: sc-2213.

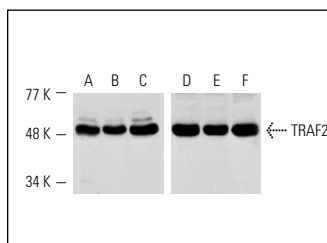
## STORAGE

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

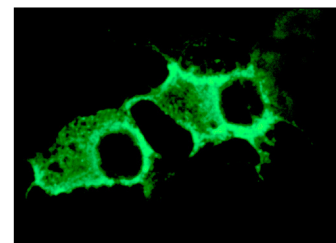
## RESEARCH USE

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

## DATA



Western blot analysis of TRAF2 expression in Jurkat (A, D), A-431 (B, E) and WEHI-231 (C, F) whole cell lysates. Antibodies tested include TRAF2 (C-20): sc-876 (A-C) and TRAF2 (N-19): sc-877 (D-F).



TRAF2 (N-19): sc-877. Immunofluorescence staining of methanol-fixed TRAF2-transfected COS cells showing cytoplasmic localization.

## SELECT PRODUCT CITATIONS

- Tobin, D., et al. 1998. UVB-induced association of tumor necrosis factor (TNF) receptor 1/TNF receptor associated factor 2 mediates activation of Rel proteins. *J. Exp. Med.* 95: 565-569.
- Wong, B.R., et al. 1998. The TRAF family of signal transducers mediates NFκB activation by the TRANCE receptor. *J. Biol. Chem.* 273: 28355-28359.
- Soond, S.M., et al. 2006. TRUSS, a tumor necrosis factor receptor-1-interacting protein, activates c-Jun NH<sub>2</sub>-terminal kinase and transcription factor AP-1. *FEBS Lett.* 580: 4591-4596.
- Patel, D.N., et al. 2007. Interleukin-17 stimulates c-reactive protein expression in hepatocytes and smooth muscle cells via p38 MAPK and ERK 1/2-dependent NFκB and C/EBPβ activation. *J. Biol. Chem.* 282: 27229-27238.
- Cho, H.Y., et al. 2007. Signal transduction pathways of tumor necrosis factor-mediated lung injury induced by ozone in mice. *Am. J. Respir. Crit. Care Med.* 175: 829-839.
- Okamura, M., et al. 2008. Suppression of cytokine responses by indomethacin in podocytes: a mechanism through induction of unfolded protein response. *Am. J. Physiol. Renal Physiol.* 295: F1495-F1503.
- Farhana, L., et al. 2011. Maximal adamantyl-substituted retinoid-related molecule-induced apoptosis requires NFκB noncanonical and canonical pathway activation. *Cell Death Differ.* 18: 164-173.
- Pérez-Chacón, G., et al. 2012. TNFR-associated factor 2 deficiency in B lymphocytes predisposes to chronic lymphocytic leukemia/small lymphocytic lymphoma in mice. *J. Immunol.* 189: 1053-1061.



Try **TRAF2 (F-2): sc-136999** or **TRAF2 (F-4): sc-137048**, our highly recommended monoclonal alternatives to TRAF2 (N-19). Also, for AC, HRP, FITC, PE, Alexa Fluor<sup>®</sup> 488 and Alexa Fluor<sup>®</sup> 647 conjugates, see **TRAF2 (F-2): sc-136999**.