**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 1:100-1:1000).

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), A-431 (B), E and WEHI-231 (C) whole cell lysates. Antibodies tested include TRAF2 (C-20) sc-2204, TRAF2 (N-19): sc-877 (C-D).

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

**SELECT PRODUCT CITATIONS**


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® 488 and Alexa Fluor® 647 conjugates, see TRAF2 (F-2): sc-136999.