

TRAF2 Antibody

TRAF2 (CT): TNF receptor-associated factor 2

CATALOG NO.: 3661

BACKGROUND:

Tumor necrosis factor (TNF) receptor associated factors (TRAFs) were initially discovered as adaptor proteins that link the TNF receptor superfamily to signaling pathways and are thus important regulators of cell death and cellular response to stress (1). TRAF proteins share a homology region that allows them to bind to cell receptors and other TRAF proteins, causing the activation of different signal cascades depending on the TRAFs involved. For example, TRAF2 and TRAF3 directly bind to the CD40, a NF receptor superfamily member involved in inducing B cell immunity (2), and are critical for NF- κ B activation in mouse B lymphocytes (3). TRAF2 along with TRAF6 has also been shown to be required for CD40 signaling in nonhemopoietic cells (4). TRAF2 also interacts with the TRFR superfamily member lymphotoxin- β receptor (LT β R) in association with TRAF3 and the apoptosis inhibitors cIAP1 and Smac (5).

SOURCE:

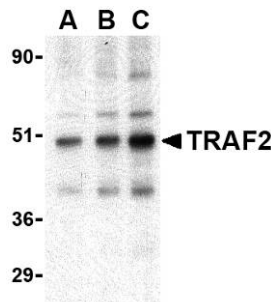
Rabbit polyclonal TRAF2 antibody was raised against a 17 amino acid peptide from near the carboxy terminus of human TRAF2 (Genbank accession No. CAI15106).

APPLICATION:

TRAF2 antibody can be used for the detection of TRAF2 by Western blot at 0.5 – 1 μ g/ml. (Optimal dilution should be determined by user.) Mouse liver tissue lysate can be used as positive control. TRAF2 antibody is human, mouse and rat reactive. **This product is for research use only.**

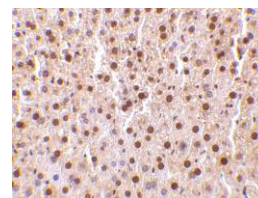
STORAGE:

TRAF2 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of TRAF2 in mouse liver tissue lysate with TRAF2 antibody at (A) 0.5, (B) 1 and (C) 2 μ g/ml.

Immunohistochemistry of TRAF2 in mouse liver tissue with TRAF2 antibody at 10 μ g/ml.



RELATED PRODUCTS:

Blocking peptide, Catalog No. **3661P**.
Mouse Liver Tissue Lysate, Catalog No. **1404**.
TRAF2 Antibody (NT), Catalog No. **3663**.
TRAF3 Antibody (NT), Catalog No. **3601**.
TRAF6 Antibody, Catalog No. **3129**.
Smac Antibody (CT), Catalog No. **2409**.
cIAP Antibody (CT), Catalog No. **3325**.

REFERENCES:

1. Arch RH, Gedrich RW, and Thompson CB. Tumor necrosis factor receptor-associated factors (TRAFs) – a family of adaptor proteins that regulate life and death. *Genes Dev.* 1998; 12:2821-30.
2. van Kooten C and Bancherau J. CD40-CD40 ligand. *J. Leukoc. Biol.* 2000; 67:2-17.
3. Grech AP, Amesbury M, Chan T, et al. TRAF2 differentially regulates the canonical and noncanonical pathways of NF-kappaB activation in mature B cells. *Immunity* 2004; 21:629-42.
4. Davies CC, Mak TW, Young LS, et al. TRAF6 is required for TRAF2-dependent CD40 signal transduction in nonhemopoietic cells. *Mol. Cell. Biol.* 2005; 25:9806-19.
5. Kuai J, Nickbarg E, Wooters J, et al. Endogenous association of TRAF2, TRAF3, cIAP1, and Smac with lymphotoxin- β receptor reveals a novel mechanism of apoptosis. *J. Biol. Chem.* 2003; 278:14363-9. (06-01D)