

TANK Antibody

TANK (NT): TRAF family member-associated NF-kappaB activator, I-TRAF

CATALOG NO.: 3879

BACKGROUND:

TANK was initially identified as a novel TRAF-interacting protein that regulated TRAF-mediated signal transduction (1,2). Specifically, ligand binding by surface receptors in the tumor necrosis factor (TNF) receptor and Toll/interleukin-1 (IL-1) receptor families lead to the formation of a TRAF/TANK complex that mediates the activation of the transcription factor NF- κ B. This activation of NF- κ B occurs through an association with the kinases IKK ϵ and TBK1 (3). More recently, it was shown that these proteins can then form a complex with NEMO, a protein that regulates the activity of the I κ B complex (4). This suggests that in addition to the possibility that TBK1 and IKK ϵ activate the IKKs, the association with the IKK complex may help these kinases modulate other functions, such as the transactivation potential of NF- κ B proteins (4). At least two isoforms of TANK are known to exist.

SOURCE:

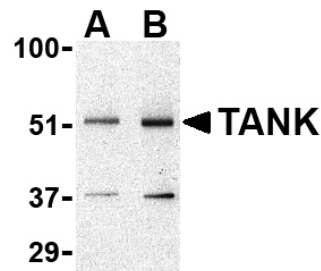
Rabbit polyclonal TANK antibody was raised against a 14 amino acid peptide from near the amino terminus of human TANK (Genbank accession No. NP_004171).

APPLICATION:

TANK antibody can be used for the detection of TANK by Western blot at 0.5 – 1 μ g/ml. (Optimal dilution should be determined by user.) Daudi cell lysate can be used as positive control. TANK antibody is human specific. **This product is for research use only.**

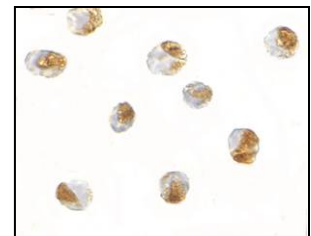
STORAGE:

TANK 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 TANK in Daudi cell lysate with TANK antibody at (A) 0.5 and (B) 1 μ g/ml.

Immunocytochemistry of TANK in Daudi cells with TANK antibody at 2.5 μ g/ml.



RELATED PRODUCTS:

Blocking Peptide, Catalog No. **3879P**.
Daudi Cell Lysate, Catalog No. **1405**.
TANK Antibody (CT), Catalog No. **3877**.
IKK ϵ Antibody (CT), Catalog No. **2329**.
TBK1 Antibody, Catalog No. **2351**.
IKK γ /NEMO Antibody, Catalog No. **2335**.
TRAF2 Antibody (CT), Catalog No. **3661**.

REFERENCES:

1. Cheng G and Baltimore D. TANK, a co-inducer with TRAF2 of TNF- and CD40L-mediated NF-kappaB activation. *Genes Dev.* 1996; 10:963-73.
2. Rothe M, Xiong J, Shu HB, et al. I-TRAF is a novel TRAF-interacting protein that regulates TRAF-mediated signal transduction. *Proc. Natl. Acad. Sci. USA* 1996; 93:8241-6.
3. Pomerantz JL and Baltimore D. NF-kappaB activation by a signaling complex containing TRAF2, TANK and TBK1, a novel IKK-related kinase. *EMBO J.* 1999; 18:6694-704.
4. Chariot A, Leonardi A, Muller J, et al. Association of the adaptor TANK with the I κ B kinase (IKK) regulator NEMO connects IKK complexes with the IKK ϵ and TBK1 kinases. *J. Biol. Chem.* 2002; 277:37029-36. (06-01D)