

# TRAF6 Antibody

Rabbit mAb Catalog # AP90224

## **Product Information**

**Application** WB, IHC, FC **Primary Accession Q9Y4K3** 

Reactivity Rat, Human, Mouse

Clonality Monoclonal

TNF receptor-associated factor 6; E3 ubiquitin-protein ligase TRAF6; **Other Names** 

Interleukin-1 signal transducer; RING finger protein 85; TRAF6; RNF85; TRAF 6;

TRAF-6;

Rabbit IgG Isotype Host Rabbit Calculated MW 59573

### Additional Information

WB 1:500~1:2000 IHC 1:50~1:200 FC 1:50~1:200 Dilution

**Purification** Affinity-chromatography

**Immunogen** A synthesized peptide derived from human TRAF6

**Description** TRAFs (TNF receptor-associated factors) are a family of multifunctional

adaptor proteins that bind to surface receptors and recruit additional proteins to form multiprotein signaling complexes capable of promoting

cellular responses. Members of the TRAF family share a common

carboxy-terminal TRAF domain which mediates interactions with associated

proteins; many also contain amino-terminal Zinc/RING finger motifs.

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium **Storage Condition and Buffer** 

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

### **Protein Information**

TRAF6 Name

RNF85 **Synonyms** 

**Function** E3 ubiquitin ligase that, together with UBE2N and UBE2V1, mediates the

synthesis of 'Lys-63'-linked-polyubiquitin chains conjugated to proteins, such

as ECSIT, IKBKG, IRAK1, AKT1 and AKT2 (PubMed:11057907,

PubMed: 18347055, PubMed: 19465916, PubMed: 19713527,

PubMed: 27746020, PubMed: 31620128). Also mediates ubiquitination of free/unanchored polyubiquitin chain that leads to MAP3K7 activation (PubMed: 19675569). Leads to the activation of NF-kappa-B and JUN (PubMed:<u>16378096</u>, PubMed:<u>17135271</u>, PubMed:<u>17703191</u>). Seems to also play a role in dendritic cells (DCs) maturation and/or activation (By similarity).

Represses c-Myb-mediated transactivation, in B-lymphocytes (PubMed: 18093978, PubMed: 18758450). Adapter protein that seems to play a role in signal transduction initiated via TNF receptor, IL-1 receptor and IL-17 receptor (PubMed:12140561, PubMed:19825828, PubMed:8837778). Regulates osteoclast differentiation by mediating the activation of adapter protein complex 1 (AP-1) and NF-kappa-B, in response to RANK-L stimulation (By similarity). Together with MAP3K8, mediates CD40 signals that activate ERK in B-cells and macrophages, and thus may play a role in the regulation of immunoglobulin production (By similarity). Acts as a regulator of the JNK and NF-kappa-B signaling pathways by initiating assembly of heterotypic 'Lys-63'-/'Lys-48'-linked branched ubiquitin chains that are then recognized by TAB2: TRAF6 catalyzes initial 'Lys-63'-linked-polyubiquitin chains that are then branched via 'Lys-48'-linked polyubiquitin by HUWE1 (PubMed: 27746020). 'Lys- 63'-/'Lys-48'-linked branched ubiquitin chains protect 'Lys-63'- linkages from CYLD deubiquitination (PubMed: 27746020). Participates also in the TCR signaling by ubiquitinating LAT (PubMed:23514740, PubMed:25907557).

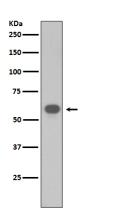
#### **Cellular Location**

Cytoplasm. Cytoplasm, cell cortex. Nucleus. Lipid droplet {ECO:0000250 | UniProtKB:P70196}. Note=Found in the nuclei of some aggressive B-cell lymphoma cell lines as well as in the nuclei of both resting and activated T- and B-lymphocytes. Found in punctate nuclear body protein complexes. Ubiquitination may occur in the cytoplasm and sumoylation in the nucleus. RSAD2/viperin recruits it to the lipid droplet (By similarity).

#### **Tissue Location**

Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

## **Images**



Western blot analysis of TRAF6 expression in NIH/3T3 cell lysate.

Image not found: 202311/AP90224-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human colon carcinoma, using TRAF6 Antibody.

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