

# TRAF6 Rabbit mAb

Catalog # AP76191

## Product Information

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<b>Application</b>	WB, IHC-P
<b>Primary Accession</b>	<a href="#">Q9Y4K3</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	59573

## Additional Information

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<b>Gene ID</b>	7189
<b>Other Names</b>	TRAF6
<b>Dilution</b>	WB~~1:1000-1:5000 IHC-P~~N/A
<b>Format</b>	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	TRAF6
<b>Synonyms</b>	RNF85
<b>Function</b>	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: <a href="#">11057907</a> , PubMed: <a href="#">18347055</a> , PubMed: <a href="#">19465916</a> , PubMed: <a href="#">19713527</a> , PubMed: <a href="#">27746020</a> , PubMed: <a href="#">31620128</a> ). Also mediates ubiquitination of free/unanchored polyubiquitin chain that leads to MAP3K7 activation (PubMed: <a href="#">19675569</a> ). Leads to the activation of NF-kappa-B and JUN (PubMed: <a href="#">16378096</a> , PubMed: <a href="#">17135271</a> , PubMed: <a href="#">17703191</a> ). 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: <a href="#">18093978</a> , PubMed: <a href="#">18758450</a> ). Adapter protein that seems to play a role in signal transduction initiated via TNF receptor, IL-1 receptor and IL-17 receptor (PubMed: <a href="#">12140561</a> , PubMed: <a href="#">19825828</a> , PubMed: <a href="#">8837778</a> ).

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).

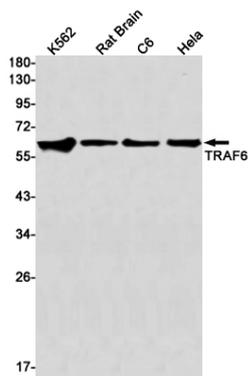
### Tissue Location

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

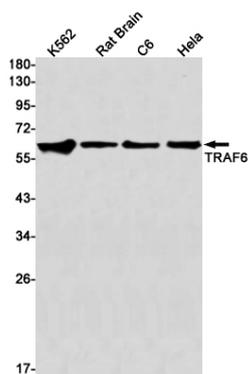
## Background

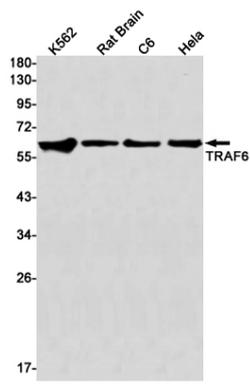
TRAFs (TNF receptor-associated factors) are a family of multifunctional adaptor proteins that bind to surface receptors and recruit additional proteins to form multiprotein signaling complexes capable of promoting cellular responses. Members of the TRAF family share a common carboxy-terminal TRAF domain which mediates interactions with associated proteins; many also contain amino-terminal Zinc/RING finger motifs.

## Images



Western blot analysis of TRAF6 in K562, rat Brain, C6, HeLa lysates using TRAF6 antibody.





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