

Anti-TRAF6 Antibody

Rabbit polyclonal antibody to TRAF6

Catalog # AP61519

Product Information

Application	WB, IHC
Primary Accession	Q9Y4K3
Other Accession	P70196
Reactivity	Human, Mouse, Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59573

Additional Information

Gene ID	7189
Other Names	RNF85; TNF receptor-associated factor 6; E3 ubiquitin-protein ligase TRAF6; Interleukin-1 signal transducer; RING finger protein 85
Target/Specificity	Recognizes endogenous levels of TRAF6 protein.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	TRAF6
Synonyms	RNF85
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: 16378096 , PubMed: 17135271 , PubMed: 17703191). 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).

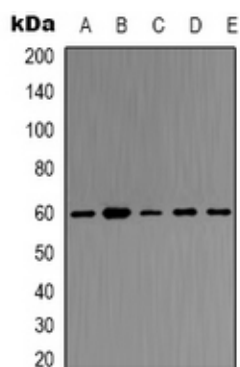
Tissue Location

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

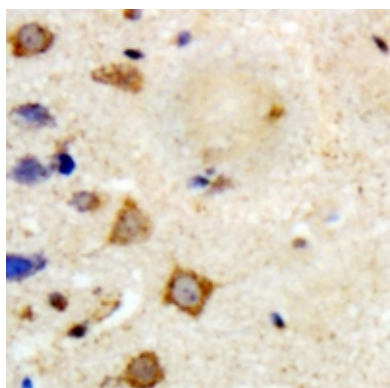
Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human TRAF6. The exact sequence is proprietary.

Images



Western blot analysis of TRAF6 expression in Hela (A), K562 (B), Rat kidney (C), Rat heart (D), mouse kidney (E) whole cell lysates.



Immunohistochemical analysis of TRAF6 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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