

# TRAF4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP16059b

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q9BUZ4</a>
<b>Other Accession</b>	<a href="#">Q61382</a> , <a href="#">NP_004286.2</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB35303
<b>Calculated MW</b>	53543
<b>Antigen Region</b>	427-455

## Additional Information

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<b>Gene ID</b>	9618
<b>Other Names</b>	TNF receptor-associated factor 4, Cysteine-rich domain associated with RING and Traf domains protein 1, Metastatic lymph node gene 62 protein, MLN 62, RING finger protein 83, TRAF4, CART1, MLN62, RNF83
<b>Target/Specificity</b>	This TRAF4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 427-455 amino acids from the C-terminal region of human TRAF4.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	TRAF4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	TRAF4
<b>Synonyms</b>	CART1, MLN62, RNF83

<b>Function</b>	<p>Adapter protein with E3 ligase activity that is involved in many diverse biological processes including cell proliferation, migration, differentiation, DNA repair, platelet activation or apoptosis (PubMed:<a href="#">30352854</a>, PubMed:<a href="#">31076633</a>, PubMed:<a href="#">32268273</a>, PubMed:<a href="#">33991522</a>). Promotes EGFR-mediated signaling by facilitating the dimerization of EGFR and downstream AKT activation thereby promoting cell proliferation (PubMed:<a href="#">30352854</a>). Ubiquitinates SMURF2 through 'Lys-48'-linked ubiquitin chain leading to SMURF2 degradation through the proteasome and subsequently osteogenic differentiation (PubMed:<a href="#">31076633</a>). Promotes 'Lys-63'-mediated ubiquitination of CHK1 which in turn activates cell cycle arrest and activation of DNA repair (PubMed:<a href="#">32357935</a>). In addition, promotes an atypical 'Lys-29'-linked ubiquitination at the C-terminal end of IRS1 which is crucial for insulin-like growth factor (IGF) signal transduction (PubMed:<a href="#">33991522</a>). Regulates activation of NF-kappa-B in response to signaling through Toll-like receptors. Required for normal skeleton development, and for normal development of the respiratory tract (By similarity). Required for activation of RPS6KB1 in response to TNF signaling. Modulates TRAF6 functions. Inhibits adipogenic differentiation by activating pyruvate kinase PKM activity and subsequently the beta-catenin signaling pathway (PubMed:<a href="#">32268273</a>).</p>
<b>Cellular Location</b>	<p>Cytoplasm. Nucleus. Cytoplasm, perinuclear region. Cell junction, tight junction. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytoskeleton</p>
<b>Tissue Location</b>	<p>Expressed in epithelial cells of thymus, dendritic cells of lymph node, and in the basal cell layer of epithelia such as epidermis, nasopharynx, respiratory tract, salivary gland, and esophagus.</p>

## Background

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This gene encodes a member of the TNF receptor associated factor (TRAF) family. TRAF proteins are associated with, and mediate signal transduction from members of the TNF receptor superfamily. The encoded protein has been shown to interact with neurotrophin receptor, p75 (NTR/NTSR1), and negatively regulate NTR induced cell death and NF-kappa B activation. This protein has been found to bind to p47phox, a cytosolic regulatory factor included in a multi-protein complex known as NAD(P)H oxidase. This protein thus, is thought to be involved in the oxidative activation of MAPK8/JNK. Alternatively spliced transcript variants have been observed but the full-length nature of only one has been determined.

## References

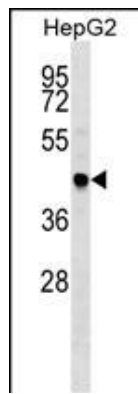
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Li, S., et al. Mol. Cell. Biochem. 338 (1-2), 11-17 (2010) :  
 Davila, S., et al. Genes Immun. 11(3):232-238(2010)  
 Segat, L., et al. Vaccine 28(10):2201-2206(2010)  
 Albers, H.M., et al. Ann. Rheum. Dis. 67(11):1578-1580(2008)  
 Kedinger, V., et al. PLoS ONE 3 (10), E3518 (2008) :

## Images

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TRAF4 Antibody (C-term) (Cat. #AP16059b) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the TRAF4 antibody detected the TRAF4 protein (arrow).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.