

Product Name: TRAF4 (9Q19) Rabbit Monoclonal Antibody
Catalog #: AMRe19186



Summary

Production Name	TRAF4 (9Q19) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	TRAF4
Alternative Names	MLN 62; RING finger protein 83; TRAF4; CART1; MLN62; RNF83
Gene ID	9618.0
SwissProt ID	Q9BUZ4.

Application

Dilution Ratio	WB 1:1000-1:2000
Molecular Weight	54kDa

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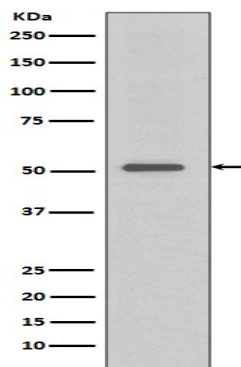
Background

The tumor necrosis factor (TNF) receptor superfamily is composed of several type I integral membrane glycoproteins that exhibit homology in their cystine-rich extracellular domains. Members of this family include TNF-RI, TNF-RII and CD40. Ligands for these receptors can be small, secreted proteins, such as TNF, or type II integral membrane proteins, as is the case for the CD40 ligand, CD40L. While the signal transduction mechanism of the TNF receptor superfamily is poorly understood, activation of TNF-R or CD40 have been shown to induce the nuclear translocation of NFκB. 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: [30352854](http://www.uniprot.org/citations/30352854), PubMed: [31076633](http://www.uniprot.org/citations/31076633), PubMed: [32268273](http://www.uniprot.org/citations/32268273), PubMed: [33991522](http://www.uniprot.org/citations/33991522)). Promotes EGFR-mediated signaling by facilitating the dimerization of EGFR and downstream AKT activation thereby promoting cell proliferation (PubMed: [30352854](http://www.uniprot.org/citations/30352854)). Ubiquitinates SMURF2 through 'Lys-48'-linked ubiquitin chain leading to SMURF2 degradation through the proteasome and subsequently osteogenic differentiation (PubMed: [31076633](http://www.uniprot.org/citations/31076633)). Promotes 'Lys-63'-mediated ubiquitination of CHK1 which in turn activates cell cycle arrest and activation of DNA repair (PubMed: [32357935](http://www.uniprot.org/citations/32357935)). 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: [33991522](http://www.uniprot.org/citations/33991522)). Regulates activation of NF-κB 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: [32268273](http://www.uniprot.org/citations/32268273)).

Research Area

Image Data

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Western blot analysis of TRAF4 expression in HeLa cell lysate.

Note

For research use only.