

TRAF4 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16059b**Specification**

TRAF4 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9BUZ4](#)**TRAF4 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 9618**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TRAF4 Antibody (C-term) Blocking Peptide - Protein Information**Name** TRAF4**Synonyms** CART1, MLN62, RNF83**Function**

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))

target="_blank">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). 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:32268273).

Cellular Location

Cytoplasm. Nucleus. Cytoplasm, perinuclear region. Cell junction, tight junction. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytoskeleton

Tissue Location

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.

TRAF4 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

TRAF4 Antibody (C-term) Blocking Peptide - Images

TRAF4 Antibody (C-term) Blocking Peptide - Background

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.

TRAF4 Antibody (C-term) Blocking Peptide - References

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) Keding, V., et al. PLoS ONE 3 (10), E3518 (2008) :