

Anti-TRAF4 Antibody

Catalog # ABO11316

Specification

Anti-TRAF4 Antibody - Product Information

ApplicationWB, IHC-PPrimary AccessionO9BUZ4HostRabbitReactivityHuman, Mouse, RatClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for TNF receptor-associated factor 4(TRAF4) detection. Tested withWB, IHC-P in Human; Mouse; Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-TRAF4 Antibody - 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

Calculated MW 53543 MW KDa

Application Details Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

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

Tissue Specificity

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.

Protein Name TNF receptor-associated factor 4

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen



A synthetic peptide corresponding to a sequence at the C-terminus of human TRAF4(437-454aa PKFISHQDIRKRNYVRDD), identical to the related rat and mouse sequences.

Purification Immunogen affinity purified.

Cross Reactivity No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities Belongs to the TNF receptor-associated factor family. B subfamily.

Anti-TRAF4 Antibody - 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, PubMed:31076633, PubMed:32268273, PubMed:32268273, PubMed:32268273, PubMed:33991522, PubMed:activation thref="blank">activation thref="blank">activation thref="blank">activation thref="blank">activation thref=

href="http://www.uniprot.org/citations/30352854" target="_blank">30352854). Ubiquitinates SMURF2 through 'Lys-48'-linked ubiquitin chain leading to SMURF2 degradation through the proteasome and subsequently osteogenic differentiation (PubMed:31076633). Promotes 'Lys-63'-mediated ubiquitination of CHK1 which in turn activates cell cycle arrest and activation of DNA repair (PubMed:<a href="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:<a

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href="http://www.uniprot.org/citations/32268273" target="_blank">32268273</a>).
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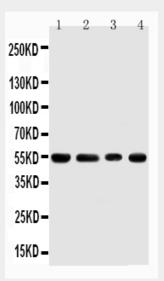


Anti-TRAF4 Antibody - Protocols

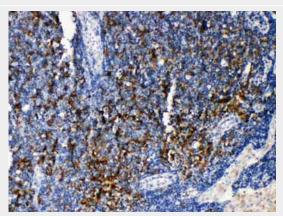
Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

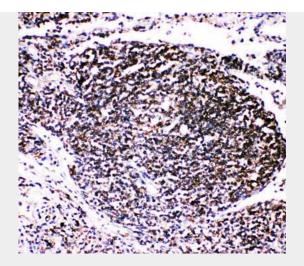
Anti-TRAF4 Antibody - Images



Anti-TRAF4 antibody, ABO11316, Western blottingLane 1: Rat Thymus Tissue LysateLane 2: HELA Cell LysateLane 3: JURKAT Cell LysateLane 4: HEPA Cell Lysate



Anti-TRAF4 antibody, ABO11316, IHC(P)IHC(P): Rat Lymphonodus Tissue



Anti-TRAF4 antibody, ABO11316, IHC(P)IHC(P): Human Lung Cancer Tissue

Anti-TRAF4 Antibody - Background

TRAF4(TNF Receptor-Associated Factor 4), also called CART1 or MLN62, is a protein that in humans is encoded by the TRAF3 gene. TRAF4 is a member of the TNF receptor associated factor(TRAF) family, a family of scaffold proteins. Tomasetto et al.(1995) identified genes that are overexpressed in breast cancer by differential screening of cDNAs from breast cancer-derived metastatic axillary lymph nodes. The TRAF4 cDNA, which they designated MLN62, was mapped to 17q11-q12 by radioisotopic in situ hybridization. To investigate the biologic function of TRAF4, Regnier et al.(2002) generated Traf4-deficient mice by gene disruption.