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Anti-TRAF1 Antibody

Catalog # ABO11313

Product Information

Application	WB
Primary Accession	Q13077
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for TNF receptor-associated factor 1(TRAF1) detection. Tested with WB in Human;Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	7185
Other Names	TNF receptor-associated factor 1, Epstein-Barr virus-induced protein 6, TRAF1, EBI6
Calculated MW	46164
Application Details	Western blot, 0.1-0.5 □g/ml, Human, Mouse
Source	Eukaryota
Protein Name	TNF receptor-associated factor 1
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 in the middle region of human TRAF1(220-235aa HQSQLDRERILSLEQR), different from the related mouse sequence by one amino acid.
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	Contains 1 MATH domain.

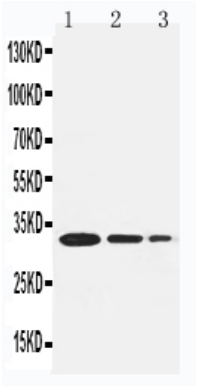
Protein Information

Name	TRAF1
Synonyms	EBI6
Function	Adapter molecule that is involved in multiple signaling pathways including the NF-kappa-B and MAPK pathways and thus influences inflammatory and apoptotic responses. Plays a critical role in regulating T-cell activation both through restricting the costimulation-independent activation of NIK in activated T-cells and by promoting the TNFRSF9-induced classical NF-kappa-B pathway (By similarity). Forms a heterotrimer with TRAF2 as part of an E3 ubiquitin-protein ligase complex that mediates ubiquitination of target proteins such as MAP3K14 and gasdermin D/GSDMD (PubMed:40097387). This complex also recruits the antiapoptotic E3 ligases BIRC2 and BIRC3 to TNFRSF1B/TNFR2 (PubMed:19287455). Acts downstream of MAVS within the RIG-I/MAVS antiviral pathway to enhance type I interferon signaling (PubMed:38995016). Regulates osteoclastogenesis by preventing ubiquitination and degradation of MLST8, thereby promoting PI3K-AKT signaling and enhancing oxidative phosphorylation in osteoclasts (By similarity).
Cellular Location	Cytoplasm.

Background

TRAF1(TNF Receptor-Associated Factor 1), also called EBI6, is a protein that in humans is encoded by the TRAF1 gene. The protein encoded by this gene is a member of the TNF receptor(TNFR) associated factor(TRAF) protein family. Siemienski et al.(1997) used fluorescence in situ hybridization to map the TRAF1 gene to 9q33-q34. Mosialos et al.(1995) found that LMP1, the EBV-transforming protein, specifically associates with LAP1(TRAF3) or EBI6 in B lymphoblasts. LMP1 expression redirects LAP1 and EBI6 from scattered cytoplasmic structures to LMP1 plasma membrane patches. Both LAP1 and EBI6 associated with the cytoplasmic domain of p80/TNFR2 in vivo.

Images



Anti-TRAF1 antibody, ABO11313, Western blottingRecombinant Protein Detection Source: E.coli derived -recombinant Human TRAF1, 30.6KD(162aa tag+ E174-E282)Lane 1: Recombinant Human TRAF1 Protein 5ngLane 2: Recombinant Human TRAF1 Protein 2.5ngLane 3: Recombinant Human TRAF1 Protein 1.25ng