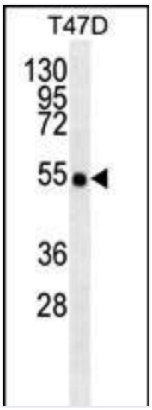
TRAF2 Antibody – Mouse Monoclonal

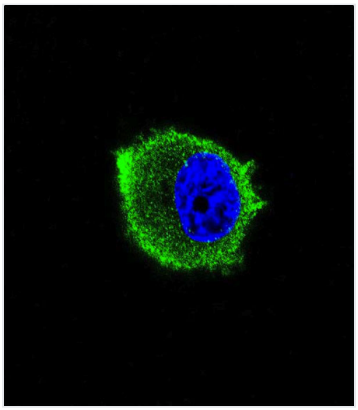
PRODUCT OVERVIEW

Product Name	TRAF2, Monoclonal Antibody
Full Product Name	TRAF2 (TRAF2, TRAP3, TNF receptor-associated factor 2, E3 ubiquitin-protein ligase TRAF2, Tumor necrosis factor type 2 receptor-associated protein 3) (APC)
Product Gene Name	anti-TRAF2 antibody
Product Synonym Names	TRAF2; TRAP3; TNF receptor-associated factor 2; E3 ubiquitin-protein ligase TRAF2; Tumor necrosis factor type 2 receptor-associated protein 3
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	214CT16.3.4
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein G Affinity Chromatography
Specificity	Recognizes human TRAF2.
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage, store at -20 degree C with glycerol. Aliquots are stable for at least 6 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer. Do not freeze APC conjugates. Light sensitive.
Molecular Weight	55,859 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (139780965..139821067). Location: 9q34
OMIM	601895
3D Structure	ModBase 3D Structure for Q12933
Immunogen	Recombinant protein corresponding to human TRAF2.
Conjugate	APC
Special Handling	Light sensitive
Product Categories/Family for anti-TRAF2 antibody	Antibodies; Ubiquitin Ligases
Applications Tested/Suitable for anti-TRAF2 antibody	FLISA, Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-TRAF2 antibody	FLISA: 1:1000 IF: 1:10-50 WB: 1:100-1000 Applications are based on unconjugated antibody.

Related Product Information for anti-TRAF2 antibody	The protein encoded by this gene is a member of the TNF receptor associated factor (TRAF) protein family. TRAF proteins associate with, and mediate the signal transduction from members of the TNF receptor superfamily. This protein directly interacts with TNF receptors, and forms a heterodimeric complex with TRAF1. This protein is required for TNF-alpha-mediated activation of MAPK8/JNK and NF-kappaB. The protein complex formed by this protein and TRAF1 interacts with the inhibitor-of-apoptosis proteins (IAPs), and functions as a mediator of the anti-apoptotic signals from TNF receptors. The interaction of this protein with TRADD, a TNF receptor associated apoptotic signal transducer, ensures the recruitment of IAPs for the direct inhibition of caspase activation. BIRC2/c-IAP1, an apoptosis inhibitor possessing ubiquitin ligase activity, can unbiquitinate and induce the degradation of this protein, and thus potentiate TNF-induced apoptosis. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of only one transcript has been determined.
Product References and Citations for anti-TRAF2 antibody	1. Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) 2. Song, Y.J., et al. Virus Genes 41(2):174-180(2010) 3. Mace, P.D., et al. J. Mol. Biol. 400(1):8-15(2010) 4. Alvarez, S.E., et al. Nature 465(7301):1084-1088(2010) 5. Zhang, W., et al. Chin. Med. Sci. J. 25(1):1-12(2010)
Other Notes	Small volumes of anti-TRAF2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TRAF2 purchase	MBS6121077 is an antibody targeting TRAF2. Also known as TRAF2 (TRAF2, TRAP3, TNF receptor-associated factor 2, E3 ubiquitin-protein ligase TRAF2, Tumor necrosis factor type 2 receptor-associated protein 3) (APC). Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-TRAF2 antibody
Western Blot analysis of T47D cell line lysates (35ug/lane) using. This demonstrates the TRAF2 antibody detected the TRAF2/MB10188 protein (arrow).



Immunofluorescence (IF) of anti-TRAF2 antibody
Confocal immunofluorescent analysis of MCF-7 cell using followed by Alexa Fluor 488-conjugated goat anti-mouse IgG (green). DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRAF2. It may not necessarily be applicable to this product.

NCBI GI #	22027612
NCBI GeneID	7186
NCBI Accession #	NP_066961.2
UniProt Primary Accession #	Q12933
UniProt Secondary Accession #	Q7Z337; Q96NT2; A8K107; B4DPJ7
UniProt Related Accession #	Q12933
GenBank Nucleotide #	NM_021138.3
NCBI Official Full Name	TNF receptor-associated factor 2
NCBI Official Synonym Full Names	TNF receptor-associated factor 2
NCBI Official Symbol	TRAF2
NCBI Official Synonym Symbols	TRAP; TRAP3; MGC:45012

UniProt Protein Name	TNF receptor-associated factor 2
UniProt Synonym Protein Names	E3 ubiquitin-protein ligase TRAF2; Tumor necrosis factor type 2 receptor-associated protein 3
Protein Family	TNF receptor-associated factor
UniProt Gene Name	TRAF2
UniProt Synonym Gene Names	TRAP3
UniProt Entry Name	TRAF2_HUMAN
NCBI Protein Information	TNF receptor-associated factor 2; E3 ubiquitin-protein ligase TRAF2; tumor necrosis factor type 2 receptor associated protein 3; tumor necrosis factor type 2 receptor-associated protein 3
UniProt Comments for TRAF2	TRAF2: Regulates activation of NF-kappa-B and JNK and plays a central role in the regulation of cell survival and apoptosis. Required for normal antibody isotype switching from IgM to IgG. Has E3 ubiquitin-protein ligase activity and promotes 'Lys-63'- linked ubiquitination of target proteins, such as BIRC3, RIPK1 and TICAM1. Is an essential constituent of several E3 ubiquitin- protein ligase complexes, where it promotes the ubiquitination of target proteins by bringing them into contact with other E3 ubiquitin ligases. Regulates BIRC2 and BIRC3 protein levels by inhibiting their autoubiquitination and subsequent degradation; this does not depend on the TRAF2 RING-type zinc finger domain. Homotrimer, and heterotrimer with TRAF1 and TRAF3 (via TRAF domain). The domain containing the RING-type and the first TRAF-type zinc finger can also form homodimers (in vitro). Interacts with TNFRSF1B/TNFR2, TNFRSF4, TNFRSF5/CD40, CD27/TNFRSF7, TNFRSF8/CD30, TNFRSF9/CD137, TNFRSF11A/RANK, TNFRSF13B/TACI, TNFRSF14, TNFRSF16/NGFR, TNFRSF17/BCMA, TNFRSF18/AITR, TNFRSF19/TROY, TNFRSF19L/RELT, XEDAR, EDAR, Epstein-Barr virus BNFL1/LMP-1 and IL15RA. Interacts with CDK9, CSK, MAP3K1, MAP3K5, MAP3K11, MAP3K14, MAP4K2, RIPK1, RIPK2, TNIK, TBK1, SPHK1, TRADD, TRAFD1, TRAIP, TANK/ITRAF, TNFAIP3, TDP2, MAVS/IPS1, TICAM1 and TRPC4AP. Interacts with CASP8AP2, NFATC2IP, PEG3 and HIVEP3. Interacts with BIRC2 and BIRC3 N- terminus; a single BIRC2 or BIRC3 molecule interacts with a heterotrimer formed by TRAF1 and TRAF2, or a TRAF2 homotrimer. Identified in a complex composed of TRAF2, TRAF3, BIRC2 and BIRC3. Interaction with BIRC2 and/or BIRC3 is essential for degradation of NFKBIA and activation of NF-kappa-B. Interacts with CYLD, USP48, DAB2IP, IKKA and IKKB. Identified in a complex with TNFRSF1A, RIPK1 and IKKB. Interacts (via 'Lys-63'-linked polyubiquitin chains) with TAB2 and TAB3. Interacts with ERN1 and TAOK3. Interaction with TAOK3 is facilitated under ER stress conditions, such as treatment with tunicamycin, and may promote TRAF2 phosphorylation. Has very low E3 ubiquitin ligase activity in the absence of sphingosine-1-phosphate. E3 ubiquitin ligase activity is strongly activated by cytoplasmic sphingosine-1- phosphate. Belongs to the TNF receptor-associated factor family. A subfamily. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Ligase; Ubiquitin conjugating system; Autophagy; Ubiquitin ligase; EC 6.3.2.- Chromosomal Location of Human Ortholog: 9q34 Cellular Component: internal side of plasma membrane; cytoplasm; vesicle membrane; cell cortex; cytosol; ubiquitin ligase complex; lipid raft Molecular Function: identical protein binding; sphingolipid binding; zinc ion binding; CD40 receptor binding; ubiquitin-protein ligase activity; mitogen-activated protein kinase kinase kinase binding; tumor necrosis factor receptor binding; protein phosphatase binding; protein binding; signal transducer activity; enzyme binding; ubiquitin protein ligase binding; thioesterase binding; protein complex binding; ligase activity Biological Process: caspase activation; positive regulation of JNK activity; protein autoubiquitination; protein heterooligomerization; apoptosis; activation of NF-kappaB-inducing kinase; positive regulation of T cell cytokine production; signal transduction; activation of NF-kappaB transcription factor; regulation of apoptosis; cellular protein complex assembly; tumor necrosis factor-mediated signaling pathway; positive regulation of interleukin-2 production; innate immune response; protein catabolic process; protein complex assembly; positive regulation of transcription factor activity; positive regulation of T cell activation; regulation of immunoglobulin secretion
Research Articles on TRAF2	**1.** RAD23A down-regulated TRAF2 protein level through ubiquitin-proteasome system.
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