TNFAIP3 Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	TNFAIP3, Monoclonal Antibody
Full Product Name	TNFAIP3
Product Gene Name	anti-TNFAIP3 antibody
Product Synonym Names	TNF alpha-induced protein 3; TNFAIP3; Tumor necrosis factor alpha-induced protein 3; OTU domain-containing protein 7C; Putative DNA-binding protein A20; Zinc finger protein A20
Clonality	Monoclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	ProA affinity purified
Preparation and Storage	Aliquot and store at-20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	89,614 Da
OMIM	191163
3D Structure	ModBase 3D Structure for P21580
Immunogen	Recombinant Protein
Storage Buffer	1*TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TNFAIP3 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Related Product Information for anti-TNFAIP3 antibody	MBS8534052 is an antibody targeting TNFAIP3. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-TNFAIP3 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TNFAIP3. It may not necessarily be applicable to this product.

NCBI GI #	395393995
NCBI GeneID	7128
NCBI Accession #	NP_001257436.1
UniProt Primary Accession #	P21580
UniProt Secondary Accession #	Q2HIX9; Q5VXQ7; Q9NSR6; B2R767; E1P588
UniProt Related Accession #	P21580

GenBank Nucleotide #	NM_001270507.1
NCBI Official Full Name	tumor necrosis factor alpha-induced protein 3
NCBI Official Synonym Full Names	TNF alpha induced protein 3
NCBI Official Symbol	TNFAIP3
NCBI Official Synonym Symbols	A20; AISBL; OTUD7C; TNFA1P2
UniProt Protein Name	Tumor necrosis factor alpha-induced protein 3
UniProt Synonym Protein Names	OTU domain-containing protein 7C; Putative DNA-binding protein A20; Zinc finger protein A20
Protein Family	Tumor necrosis factor alpha-induced protein
UniProt Gene Name	TNFAIP3
UniProt Synonym Gene Names	OTUD7C; TNF alpha-induced protein 3
NCBI Protein Information	tumor necrosis factor alpha-induced protein 3
NCBI Summary for TNFAIP3	This gene was identified as a gene whose expression is rapidly induced by the tumor necrosis factor (TNF). The protein encoded by this gene is a zinc finger protein and ubiqitin-editing enzyme, and has been shown to inhibit NF-kappa B activation as well as TNF-mediated apoptosis. The encoded protein, which has both ubiquitin ligase and deubiquitinase activities, is involved in the cytokine-mediated immune and inflammatory responses. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2012]
UniProt Comments for TNFAIP3	Ubiquitin-editing enzyme that contains both ubiquitin ligase and deubiquitinase activities. Involved in immune and inflammatory responses signaled by cytokines, such as TNF-alpha and IL-1 beta, or pathogens via Toll-like receptors (TLRs) through terminating NF-kappa-B activity. Essential component of a ubiquitin-editing protein complex, comprising also RNF11, ITCH and TAX1BP1, that ensures the transient nature of inflammatory signaling pathways. In cooperation with TAX1BP1 promotes disassembly of E2-E3 ubiquitin protein ligase complexes in IL-1R and TNFR-1 pathways; affected are at least E3 ligases TRAF6, TRAF2 and BIRC2, and E2 ubiquitin-conjugating enzymes UBE2N and UBE2D3. In cooperation with TAX1BP1 promotes ubiquitination of UBE2N and proteasomal degradation of UBE2N and UBE2D3. Upon TNF stimulation, deubiquitinates 'Lys-63'-polyubiquitin chains on RIPK1 and catalyzes the formation of 'Lys-48'-polyubiquitin chains. This leads to RIPK1 proteasomal degradation and consequently termination of the TNF- or LPS-mediated activation of NF-kappa-B. Deubiquitinates TRAF6 probably acting on 'Lys-63'-linked polyubiquitin. Upon T-cell receptor (TCR)-mediated T-cell activation, deubiquitinates 'Lys-63'-polyubiquitin chains on MALT1 thereby mediating disassociation of the CBM (CARD11:BCL10:MALT1) and IKK complexes and preventing sustained IKK activation. Deubiquitinates NEMO/IKBKG; the function is facilitated by TNIP1 and leads to inhibition of NF-kappa-B activation. Upon stimulation by bacterial peptidoglycans, probably deubiquitinates RIPK2. Can also inhibit I-kappa-B-kinase (IKK) through a non-catalytic mechanism which involves polyubiquitin; polyubiquitin promotes association with IKBKG and prevents IKK MAP3K7-mediated phosphorylation. Targets TRAF2 for lysosomal degradation. In vitro able to deubiquitinate 'Lys-11'-, 'Lys-48'- and 'Lys-63' polyubiquitin chains. Inhibitor of programmed cell death. Has a role in the function of the lymphoid system. Required for LPS-induced production of proinflammatory cytokines and IFN beta in LPS-tolerized macrophages.
Research Articles on TNFAIP3	**1.** The tandem polymorphisms (rs148314165, rs200820567), deletion T followed by a T to A transversion and collectively referred to as TT > A variant of TNFAIP3 may be associated with the susceptibility of chronic hepatitis B virus infection but not the clinical disease.
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