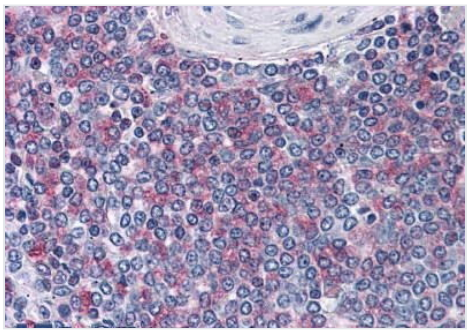
TNFAIP3 Antibody – Rabbit Polyclonal

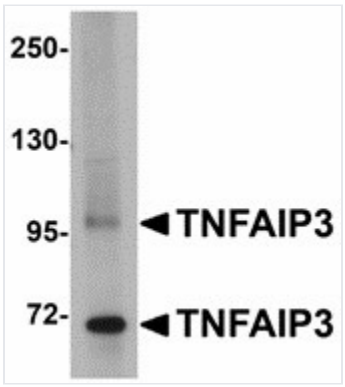
PRODUCT OVERVIEW

Product Name	TNFAIP3, Polyclonal Antibody
Full Product Name	TNFAIP3, CT (Tumor Necrosis Factor alpha-induced Protein 3, TNF alpha-induced Protein 3, OTU Domain-containing Protein 7C, Putative DNA-binding Protein A20, Zinc Finger Protein A20, OTUD7C)
Product Gene Name	anti-TNFAIP3 antibody
Product Synonym Names	Anti -TNFAIP3, CT (Tumor Necrosis Factor alpha-induced Protein 3, TNF alpha-induced Protein 3, OTU Domain-containing Protein 7C, Putative DNA-binding Protein A20, Zinc Finger Protein A20, OTUD7C)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, 0.02% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human TNFAIP3. Species sequence homology: mouse and rat.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	89,614 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (138188325..138204451). Location: 6q23
OMIM	191163
3D Structure	ModBase 3D Structure for P21580
Immunogen	Synthetic peptide corresponding to 14aa from human TNFAIP3 at C-terminus.
Product Categories/Family for anti-TNFAIP3 antibody	Antibodies; Abs to Enzymes
Applications Tested/Suitable for anti-TNFAIP3 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-TNFAIP3 antibody	Suitable for use in ELISA, Western Blot and Immunohistochemistry. Dilution: Western Blot: 1-2ug/ml Immunohistochemistry (Formalin fixed paraffin embedded): 5ug/ml
Related Product Information for anti-TNFAIP3 antibody	Ubiquitin-editing enzyme that contains both ubiquitin ligase and deubiquitinase activities. Essential component of a ubiquitin-editing protein complex, comprising also RNF11, ITCH and TAX1BP1, that ensures the transient nature of inflammatory signaling pathways. 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. In vitro able to deubiquitinate both 'Lys-48'- and 'Lys-63' polyubiquitin chains. Inhibitor of programmed cell death. Has a role in the function of the lymphoid system.
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.

Searchable Terms for TNFAIP3 purchase	MBS649891 is an antibody targeting TNFAIP3. Also known as TNFAIP3, CT (Tumor Necrosis Factor alpha-induced Protein 3, TNF alpha-induced Protein 3, OTU Domain-containing Protein 7C, Putative DNA-binding Protein A20, Zinc Finger Protein A20, OTUD7C). Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-TNFAIP3 antibody
Human Spleen: Formalin-Fixed, Paraffin-Embedded (FFPE)



Western Blot (WB) of anti-TNFAIP3 antibody
Western blot analysis of TNFAIP3 in SK-N-SH cell lysate with TNFAIP3 antibody at 1ug/ml.

ADDITIONAL DETAILS

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

NCBI GI #	395393997
NCBI GeneID	7128
NCBI Accession #	NP_001257437.1
UniProt Primary Accession #	P21580
UniProt Secondary Accession #	Q2HIX9; Q5VXQ7; Q9NSR6; B2R767; E1P588
UniProt Related Accession #	P21580
GenBank Nucleotide #	NM_001270508.1
NCBI Official Full Name	tumor necrosis factor alpha-induced protein 3
NCBI Official Synonym Full Names	tumor necrosis factor, alpha-induced protein 3
NCBI Official Symbol	TNFAIP3
NCBI Official Synonym Symbols	A20; 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
UniProt Entry Name	TNAP3_HUMAN
NCBI Protein Information	tumor necrosis factor alpha-induced protein 3; zinc finger protein A20; TNF alpha-induced protein 3; OTU domain-containing protein 7C; putative DNA-binding protein A20; tumor necrosis factor inducible protein A20
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	Function: 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. Deubiquinates 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. Deubiquinates 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. Ref.8 Ref.9 Ref.10 Ref.13 Ref.14 Ref.16 Ref.19 Ref.21 Ref.24 Ref.25 Ref.27 Ref.28 Catalytic activity: Thiol-dependent hydrolysis of ester, thioester, amide, peptide and isopeptide bonds formed by the C-terminal Gly of ubiquitin (a 76-residue protein attached to proteins as an intracellular targeting signal). Ref.25 Ref.27 Ref.28 Subunit structure: Homodimer. Interacts with TNIP1, TAX1BP1 and TRAF2. Interacts with RNF11, ITCH and TAX1BP1 only after TNF stimulation; these interaction are transient and they are lost after 1 hour of stimulation with TNF By similarity. Interacts with YWHAZ and YWHAH. Interacts with IKBKG; the interaction is induced by TNF stimulation and by polyubiquitin. Interacts with RIPK1. Interacts with UBE2N; the interaction requires TAX1BP1. Interacts with TRAF6; the interaction is inhibited by HTLV-1 protein Tax. Ref.8 Ref.9 Ref.10 Ref.11 Ref.16 Ref.20 Ref.24 Subcellular location: Cytoplasm Ref.12 Ref.19 Ref.23. Nucleus. Lysosome Ref.12 Ref.19 Ref.23. A20p50: Cytoplasm Ref.12 Ref.19 Ref.23. Induction: By TNF. Domain: The A20-type zinc fingers mediate the ubiquitin ligase activity. The A20-type zinc finger 4 selectively recognizes 'Lys-63'-linked polyubiquitin. The A20-type zinc finger 4-7 are sufficient to bind polyubiquitin. Ref.14The OTU domain mediates the deubiquitinase activity. Ref.14 Post-translational modification: Proteolytically cleaved by MALT1 upon TCR stimulation; disrupts NF-kappa-B inhibitory function and results in increased IL-2 production. It is proposed that only a fraction of TNFAIP3 colocalized with TCR and CBM complex is cleaved, leaving the main TNFAIP3 pool intact. Ref.17 Ref.23 Sequence similarities: Belongs to the peptidase C64 family.Contains 7 A20-type zinc fingers.Contains 1 OTU domain.
Research Articles on TNFAIP3	**1.** Data indicate that A20 (TNFAIP3) deletion and/or dysfunctional expression are frequently associated with pyothorax-associated lymphoma (PAL), and A20 abnormalities may be related to the pathogenesis of PAL.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/tnfaip3/649891