

Rabbit anti-Human, Rat A20/TNFAIP3 Polyclonal Antibody | anti-A20/TNFAIP3 antibody

Phospho-A20/TNFAIP3 (Ser381) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329283	Rabbit	Human, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

A20/TNFAIP3; Polyclonal Antibody; Phospho-A20/TNFAIP3 (Ser381) Antibody; A20; AISBL; MGC104522; MGC138687; MGC138688; OTU domain containing protein 7C; OTU domain-containing protein 7C; OTUD7C; Putative DNA binding protein A20; Putative DNA-binding protein A20; TNAP3_HUMAN; TNF alpha-induced protein 3; TNFAIP2; TNFAIP 3; TNFAIP3 (A20); TNFAIP3; Tumor necrosis factor alpha induced protein 3; Tumor necrosis factor alpha-induced protein 3; Tumor necrosis factor induced protein 3; Tumor necrosis factor inducible protein A20; tumor necrosis factor; alpha-induced protein 3; Zinc finger protein A20; anti-A20/TNFAIP3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-A20/TNFAIP3 (Ser381) Antibody detects endogenous levels of A20/TNFAIP3 only when phosphorylated at Ser381.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-A20/TNFAIP3 antibody	ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human A20/TNFAIP3 around the phosphorylation site of Ser381.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	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.
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.
Similarity	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. The OTU domain mediates the deubiquitinase activity. Belongs to the peptidase C64 family.
Subcellular Location	Cytoplasm. Nucleus. Lysosome. Cytoplasm.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



Application Data

At 25 degree C. Samples were then incubated with primary Ab(At 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI (blue).



IHC (Immunohistochemistry)

At 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



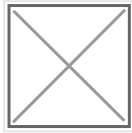
IHC (Immunohistochemistry)

At 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

Staining Rat muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from Hela cells (serum starvation treatment), using Phospho-A20/TNFAIP3 (Ser381) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-A20/TNFAIP3 antibody

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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	395393995
NCBI GeneID	7128
NCBI Accession #	NP_001257436.1
NCBI GenBank Nucleotide #	NM_001270507.1
UniProt Accession #	P21580; Q2HIX9; Q5VXQ7; Q9NSR6; B2R767; E1P588

Molecular Weight	89,614 Da
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
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
UniProt Protein Name	Tumor necrosis factor alpha-induced protein 3
UniProt Gene Name	TNFAIP3
UniProt Synonym Gene Names	OTUD7C; TNF alpha-induced protein 3
UniProt Entry Name	TNAP3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/a20-tnfaip3-antibody-peptide-elisa-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/329283>