

Rabbit ATG3 Polyclonal Antibody | anti-ATG3 antibody

Phospho-ATG3 (Tyr18) Antibody

CATALOG # AAA328273	HOST Rabbit	REACTIVITY Human, Mouse, RatPredicted: Pig, Zebrafish, Bovine, Sheep, Rabbit, Dog, Chicken, Xenopus	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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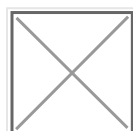
PRODUCT SYNONYMS

ATG3; Polyclonal Antibody; Phospho-ATG3 (Tyr18) Antibody; 2610016C12Rik; Apg 3; APG3; APG3 autophagy 3 like; APG3 like; S. cerevisiae; homolog of; APG3-like; APG3L; Apg3p; ATG 3; ATG3 autophagy related 3 homolog; ATG3 autophagy related 3 homolog (S. cerevisiae); ATG3_HUMAN; Autophagy 3; Autophagy Apg3p/Aut1p like; autophagy related 3; Autophagy related protein 3; Autophagy-related protein 3; DKFZp564M1178; FLJ22125; hApg3; MGC15201; OTTHUMP00000214547; OTTHUMP00000214548; PC3 96; Protein PC3-96; Ubiquitin-like-conjugating enzyme ATG3; anti-ATG3 antibody

PRODUCT SPECIFICATIONS

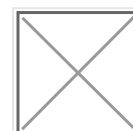
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Zebrafish, Bovine, Sheep, Rabbit, Dog, Chicken, Xenopus
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-ATG3(Tyr18) Antibody detects endogenous levels of ATG3 only when phosphorylated at Tyr18.
Purity/Purification	Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	314
Applicable Applications for anti-ATG3 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ATG3 around the phosphorylation site of Tyr18.
Tissue Specificity	Widely expressed, with a highest expression in heart, skeletal muscle, kidney, liver and placenta.
Subcellular Location	Cytoplasm
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Phospho-ATG3(Tyr18) in lysates of Jurkat, using Phospho-ATG3(Tyr18) Antibody.



IHC (Immunohistochemistry)

At 1/100 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary

ADDITIONAL INFORMATION

Related Product Information for anti-ATG3 antibody	Description: E2 conjugating enzyme required for the cytoplasm to vacuole transport (Cvt), autophagy, and mitochondrial homeostasis. Responsible for the E2-like covalent binding of phosphatidylethanolamine to the C-terminal Gly of ATG8-like proteins (GABARAP, GABARAPL1, GABARAPL2 or MAP1LC3A). The ATG12-ATG5 conjugate plays a role of an E3 and promotes the transfer of ATG8-like proteins from ATG3 to phosphatidylethanolamine (PE). This step is required for the membrane association of ATG8-like proteins. The formation of the ATG8-phosphatidylethanolamine conjugates is essential for autophagy and for the cytoplasm to vacuole transport (Cvt). Preferred substrate is MAP1LC3A. Also acts as an autocatalytic E2-like enzyme, catalyzing the conjugation of ATG12 to itself, ATG12 conjugation to ATG3 playing a role in mitochondrial homeostasis but not in autophagy. ATG7 (E1-like enzyme) facilitates this reaction by forming an E1-E2 complex with ATG3. Promotes primary ciliogenesis by removing OFD1 from centriolar satellites via the autophagic pathway. Post Translational Modifications: Conjugated to ATG12 at Lys-243. ATG12-conjugation plays a role in regulation of mitochondrial homeostasis and cell death, while it is not involved in PE-conjugation to ATG8-like proteins and autophagy. Cleaved by CASP8 upon death ligand binding such as tumor necrosis factor-alpha. CASP8 cleavage blocks survival-related autophagy and favors apoptosis. Subunit Structure: Interacts with ATG7 and ATG12. The complex, composed of ATG3 and ATG7, plays a role in the conjugation of ATG12 to ATG5. Interacts with FBNP1L. Similarity: Belongs to the ATG3 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	19526773
NCBI GeneID	64422
NCBI Accession #	NP_071933
NCBI GenBank Nucleotide #	NP_071933.2
UniProt Accession #	Q9NT62
Molecular Weight	Observed: 40 kDa Predicted: 36 kDa
NCBI Official Full Name	ubiquitin-like-conjugating enzyme ATG3 isoform 1
NCBI Official Synonym Full Names	autophagy related 3
NCBI Official Symbol	ATG3
NCBI Official Synonym Symbols	APG3; APG3L; PC3-96; APG3-LIKE
NCBI Protein Information	ubiquitin-like-conjugating enzyme ATG3
UniProt Protein Name	Ubiquitin-like-conjugating enzyme ATG3
UniProt Gene Name	ATG3
UniProt Synonym Gene Names	APG3; APG3L; APG3-like; hApp3
UniProt Entry Name	ATG3_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/atg3-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/328273>