APG3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	APG3, Polyclonal Antibody
Full Product Name	APG3, cleaved, Phosphorylated (ATG3, APG3, APG3L, Ubiquitin-like-conjugating enzyme ATG3, Autophagy-related protein 3, Protein PC3-96) (MaxLight 405)
Product Gene Name	anti-APG3 antibody
Product Synonym Gene Name	ATG3
Product Synonym Names	ATG3; APG3; APG3L; Ubiquitin-like-conjugating enzyme ATG3; Autophagy-related protein 3; Protein PC3-96
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	35,467 Da
OMIM	609606
3D Structure	ModBase 3D Structure for Q9NT62
Immunogen	APG3-cleaved Antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from human APG3.
Conjugate	MaxLight405
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-APG3 antibody	Antibodies; Autophagy
Applications Tested/Suitable for anti-APG3 antibody	FLISA, Dot Blot (DB)
Application Notes for anti-APG3 antibody	FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-APG3 antibody	MaxLight405 is a new Violet photostable dye conjugate comparable to Alexa Fluor 405, PacificBlue, Brilliant Violet 421 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (400nm); Emission (423nm); Extinction Coefficient 32,000.
Other Notes	Small volumes of anti-APG3 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 APG3 purchase	MBS6274230 is an antibody targeting APG3. Also known as APG3, cleaved, Phosphorylated (ATG3, APG3, APG3L, Ubiquitin-like-conjugating enzyme ATG3, Autophagy-related protein 3, Protein PC3-96) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APG3. It may not necessarily be applicable to this product.

NCBI GI #	19526773
NCBI GeneID	64422
NCBI Accession #	NP_071933
UniProt Primary Accession #	Q9NT62
UniProt Secondary Accession #	Q6PKC5; Q9H6L9
UniProt Related Accession #	Q9NT62
GenBank Nucleotide #	NM_022488.4
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
UniProt Protein Name	Ubiquitin-like-conjugating enzyme ATG3
UniProt Synonym Protein Names	Autophagy-related protein 3; APG3-like; hApg3; Protein PC3-96
Protein Family	Peptide chain release factor
UniProt Gene Name	ATG3
UniProt Synonym Gene Names	APG3; APG3L; APG3-like; hApg3
UniProt Entry Name	ATG3_HUMAN
NCBI Protein Information	ubiquitin-like-conjugating enzyme ATG3; hApg3; 2610016C12Rik; autophagy-related protein 3; ATG3 autophagy related 3 homolog
NCBI Summary for APG3	This gene encodes a ubiquitin-like-conjugating enzyme and is a component of ubiquitination-like systems involved in autophagy, the process of degradation, turnover and recycling of cytoplasmic constituents in eukaryotic cells. This protein is known to play a role in regulation of autophagy during cell death. A pseudogene of this gene is located on chromosome 20. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]
UniProt Comments for APG3	ATG3: an E2-like enzyme essential for Apg8p lipidation. Protein type: Enzyme, cellular metabolism; EC 6.3.2.-; Autophagy; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 3q13.2 Cellular Component: cytoplasmic ubiquitin ligase complex; cytosol Molecular Function: protein binding; enzyme binding; small conjugating protein ligase activity; APG8 conjugating enzyme activity; APG12 conjugating enzyme activity Biological Process: mitochondrion degradation; protein ubiquitination; protein modification process; mitochondrial fragmentation during apoptosis; protein targeting to membrane; autophagic vacuole formation
Research Articles on APG3	**1.** ATG3 gene and its gene family may play an important role in transformation of myelodysplastic syndrome.

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