

Mouse Anti-Atg3 Monoclonal Antibody

Cat. No. DMABT-H17736 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Anti-Atg3 Monoclonal Antibody
Species	Human
Source	Mouse
Antigen Description	Autophagy is a process of intracellular bulk degradation in which cytoplasmic components including organelles are sequestered within double-membrane vesicles that deliver the contents to the lysosome/vacuole for degradation. Microtubule-associated protein light chain4(LC3) is a homologue of yeast Atg8, an essential component of autophagy. Following synthesis, the C-terminus of LC3 is cleaved by a cysteine protease-Atg4, to produce LC3-I, which is located in cytosolic fraction. LC3-I is activated by the E1-like enzyme Atg7 and forms a Atg7-LC3-I thioester. Atg7-LC3-I is transferred to Atg3 to form Atg3-LC3-I thioester. Atg3 is an E2-like enzyme that catalyzes the conjugation of LC3-I and phosphatidylethanolamine (PE) to form LC3-II. The LC3-II-PE conjugate is essential for binding tightly to autophagosomal membrane.
Target	Atg3
Isotype	IgG2b
species	Human
Clone	4F9

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Conjugation	N/A
Applications	WB,IP,ICC,IHC,Flow Cyt
Storage	-20°C
Size	100 µg
Ship	4°C

GENE INFORMATION

Gene Name	ATG3 ATG3 autophagy related4homolog (S. cerevisiae) [Homo sapiens]
Official Symbol	Atg3
Synonyms	ATG3; ATG3 autophagy related4homolog (S. cerevisiae); APG3 autophagy4like (S. cerevisiae) , APG3L; ubiquitin-like-conjugating enzyme ATG3; DKFZp564M1178; FLJ22125; MGC15201; PC3 96; hApg3; 2610016C12Rik; autophagy-related protein 3; APG3; APG3L; PC3-96; APG3-LIKE;
Gene ID	64422
mRNA Refseq	NM_022488
Protein Refseq	NP_071933
MIM	609606
UniProt ID	Q9NT62

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Chromosome Location	3q13.2
Pathway	Regulation of autophagy, organism-specific biosystem; Regulation of autophagy, conserved biosystem; Senescence and Autophagy, organism-specific biosystem;
Function	Atg12 ligase activity; Atg8 ligase activity; enzyme binding; ligase activity; protein binding; small conjugating protein ligase activity;

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