

Rabbit anti-Human, mouse ATG12 Polyclonal Antibody | anti-ATG12 antibody

ATG12 Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285033	Rabbit	Human, mouse	Immunofluorescence, ELISA, Western Blot

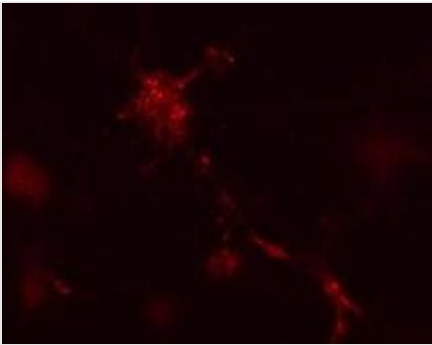
PRODUCT SYNONYMS

ATG12; Polyclonal Antibody; ATG12 Antibody (N-term); Ubiquitin-like protein ATG12; Autophagy-related protein 12; APG12-like; APG12; APG12L; anti-ATG12 antibody

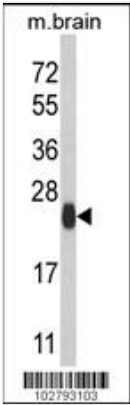
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ATG12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 8-38 amino acids from the N-terminal region of human ATG12.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	8-38
Sequence Length	74
Applicable Applications for anti-ATG12 antibody	IF (Immunofluorescence), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

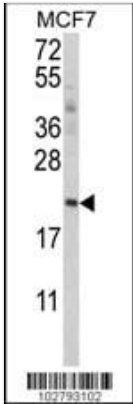
IMAGES



IF (Immunofluorescence)
Mouse leukaemic monocyte macrophage cells treated with vinblastine for 1 hr. APG12L antibody detected punctuate staining indicative of nascent autophagic vacuole structures. Data courtesy of Dr. Barry Boland, Department of Pharmacology, Oxford University.



WB (Western Blot)
Western blot analysis of hAPG12L-T23 in mouse brain tissue lysates (35ug/lane). APG12L (arrow) was detected using the purified Pab.



WB (Western Blot)
Western blot analysis of hAPG12L-T23 in MCF-7 cell line lysates (35ug/lane). APG12L (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-ATG12 antibody	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). APG12L is the human homolog of yeast APG12, a ubiquitin-activating enzyme E1-like protein essential for the conjugation system that mediates membrane fusion in autophagy.
Product Categories/Family for anti-ATG12 antibody	Cancer; Cardiovascular; Cell Biology; Metabolism; Microbiology; Autophagy
References	Tanida, I., et al., Biochem. Biophys. Res. Commun. 296(5):1164-1170 (2002). Tanida, I., et al., J. Biol. Chem. 277(16):13739-13744 (2002). Mizushima, N., et al., J. Biol. Chem. 273(51):33889-33892 (1998). Ueno, K., et al., Hum. Genet. 102(1):63-68 (1998).

NCBI AND UNIPROT INFORMATION

NCBI GI #	480540330
NCBI GeneID	9140

NCBI Accession #	NP_001264712.1 ; NP_004698.3
NCBI GenBank Nucleotide #	NM_001277783.1
UniProt Accession #	O94817 ; Q6PJV2
Molecular Weight	15113
NCBI Official Full Name	ubiquitin-like protein ATG12 isoform 2
NCBI Official Synonym Full Names	autophagy related 12
NCBI Official Symbol	ATG12
NCBI Official Synonym Symbols	APG12; FBR93; APG12L; HAPG12
NCBI Protein Information	ubiquitin-like protein ATG12
UniProt Protein Name	Ubiquitin-like protein ATG12
UniProt Gene Name	ATG12
UniProt Synonym Gene Names	APG12; APG12L; APG12-like
UniProt Entry Name	ATG12_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/atg12-antibody-immunofluorescence-western-blot-elisa/285033>