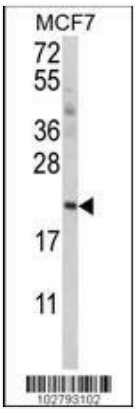
ATG12 Antibody – Rabbit Polyclonal

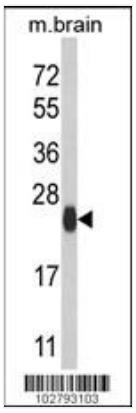
PRODUCT OVERVIEW

Product Name	ATG12, Polyclonal Antibody
Full Product Name	ATG12, NT (APG12, APG12L, HAPG12, APG12 Autophagy 12-like, APG12-like, Apg12 (Autophagy, yeast) Homolog, Autophagy-related Protein 12) (FITC)
Product Gene Name	anti-ATG12 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human APG12L. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	21kDa
OMIM	609608
3D Structure	ModBase 3D Structure for O94817
Immunogen	Synthetic peptide selected from the N-terminal region of human APG12L (KLH).
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-ATG12 antibody	Antibodies; Autophagy
Applications Tested/Suitable for anti-ATG12 antibody	Immunofluorescence (IF), FLISA, Western Blot (WB)
Application Notes for anti-ATG12 antibody	IF: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-ATG12 antibody	MBS6463470 is an antibody targeting ATG12. Also known as ATG12, NT (APG12, APG12L, HAPG12, APG12 Autophagy 12-like, APG12-like, Apg12 (Autophagy, yeast) Homolog, Autophagy-related Protein 12) (FITC). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-ATG12 antibody	1. Tanida, I., et al., Biochem. Biophys. Res. Commun. 296(5):1164-1170 (2002). 2. Tanida, I., et al., J. Biol. Chem. 277(16):13739-13744 (2002). 3. Mizushima, N., et al., J. Biol. Chem. 273(51):33889-33892 (1998). 4. Ueno, K., et al., Hum. Genet. 102(1):63-68 (1998).

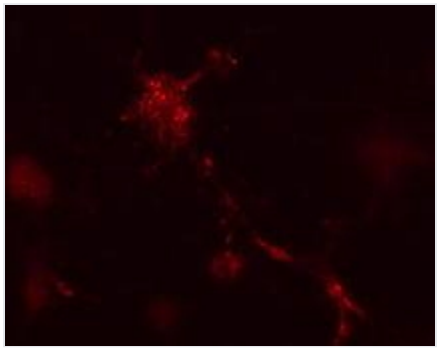
Other Notes	Small volumes of anti-ATG12 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-ATG12 antibody
Western blot analysis of hAPG12L-T23 in MCF-7 cell line lysates (35ug/lane). APG12L (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-ATG12 antibody
Western blot analysis of hAPG12L-T23 in mouse brain tissue lysates (35ug/lane). APG12L (arrow) was detected using the purified Pab.



Testing Data of anti-ATG12 antibody
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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATG12. It may not necessarily be applicable to this product.

NCBI GI #	290560746
NCBI GeneID	9140
NCBI Accession #	NP_004698
UniProt Primary Accession #	O94817
UniProt Related Accession #	O94817
GenBank Nucleotide #	NM_004707
NCBI Official Full Name	ubiquitin-like protein ATG12 isoform 1
NCBI Official Synonym Full Names	autophagy related 12
NCBI Official Symbol	ATG12
NCBI Official Synonym Symbols	APG12; FBR93; APG12L; HAPG12
UniProt Protein Name	Ubiquitin-like protein ATG12
UniProt Synonym Protein Names	Autophagy-related protein 12; APG12-like

Protein Family	Autophagy protein
UniProt Gene Name	ATG12
UniProt Synonym Gene Names	APG12; APG12L; APG12-like
UniProt Entry Name	ATG12_HUMAN
NCBI Protein Information	ubiquitin-like protein ATG12
NCBI Summary for ATG12	Autophagy is a process of bulk protein degradation in which cytoplasmic components, including organelles, are enclosed in double-membrane structures called autophagosomes and delivered to lysosomes or vacuoles for degradation. ATG12 is the human homolog of a yeast protein involved in autophagy (Mizushima et al., 1998 [PubMed 9852036]).[supplied by OMIM, Mar 2008]
UniProt Comments for ATG12	ATG12: Ubiquitin-like protein required for autophagy. Conjugated to ATG3 and ATG5. Ubiquitous. Belongs to the ATG12 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Autophagy; Ubiquitin-like modifier Chromosomal Location of Human Ortholog: 5q21-q22 Cellular Component: pre-autophagosomal structure membrane Molecular Function: protein binding; APG8 conjugating enzyme activity Biological Process: mitochondrion degradation; innate immune response; C-terminal protein lipidation; negative regulation of interferon type I production; cellular response to nitrogen starvation; autophagic vacuole formation
Research Articles on ATG12	**1.** miR-23a downregulation modulates the inflammatory response by targeting ATG12-mediated autophagy.
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