

Mouse anti-Human ATG4D Monoclonal Antibody | anti-ATG4D antibody

ATG4D Antibody

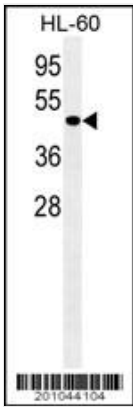
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283461	Mouse	Human	Immunofluorescence, ELISA, Western Blot

PRODUCT SYNONYMS

ATG4D; Monoclonal Antibody; ATG4D Antibody; Cysteine protease ATG4D; 3422-; AUT-like 4 cysteine endopeptidase; Autophagin-4; Autophagy-related cysteine endopeptidase 4; Autophagy-related protein 4 homolog D; mitochondrial; APG4D; AUTL4; anti-ATG4D antibody

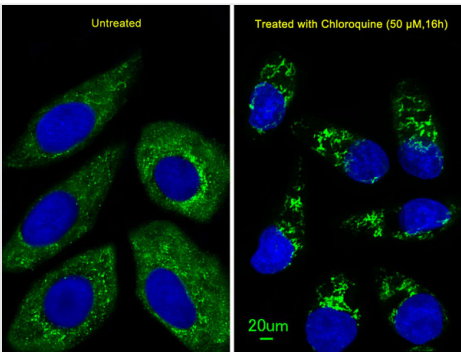
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,K
Clone Number	222CT15.4.1
Specificity	This ATG4D monoclonal antibody is generated from mouse immunized with ATG4D recombinant protein.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Length	411
Applicable Applications for anti-ATG4D antibody	IF (Immunofluorescence), ELISA, WB (Western Blot)
Antigen Type	Recombinant Protein
Crown Antibody	Yes
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.



WB (Western Blot)

ATG4D/MB10250 antibody western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the ATG4D/MB10250 antibody detected the ATG4D/MB10250 protein (arrow).



IF (Immunofluorescence)

Immunofluorescent analysis of U251 cells, using ATG4D Antibody. U251 cells(right) were treated with Chloroquine (50 uM,16h). AAA283461 was diluted at 1:25 dilution. Dylight Fluor 488-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-ATG4D antibody	Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene encodes a member of the autophagin protein family. The encoded protein is also designated as a member of the C-54 family of cysteine proteases.
Product Categories/Family for anti-ATG4D antibody	Crown Antibodies; Cancer; Cardiovascular; Metabolism; Signal Transduction; GPCR Antibodies
References	Betin, V.M., et al. J. Cell. Sci. 122 (PT 14), 2554-2566 (2009) : Lamesch, P., et al. Genomics 89(3):307-315(2007) Marino, G., et al. J. Biol. Chem. 278(6):3671-3678(2003)

NCBI AND UNIPROT INFORMATION

NCBI GI #	528078306
NCBI GeneID	84971
NCBI Accession #	NP_001268433.1; NP_116274.3
NCBI GenBank Nucleotide #	NM_001281504.1
UniProt Accession #	Q86TL0; Q969K0
Molecular Weight	52922
NCBI Official Full Name	cysteine protease ATG4D isoform 2
NCBI Official Synonym Full Names	autophagy related 4D, cysteine peptidase
NCBI Official Symbol	ATG4D
NCBI Official Synonym Symbols	APG4D; AUTL4; APG4-D
NCBI Protein Information	cysteine protease ATG4D
UniProt Protein Name	Cysteine protease ATG4D

UniProt Gene Name	ATG4D
UniProt Synonym Gene Names	APG4D; AUTL4
UniProt Entry Name	ATG4D_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/monoclonal/atg4d-antibody-clone-222ct15-4-1-immunofluorescence-western-blot-elisa/283461>