

Rabbit ATG4D Polyclonal Antibody | anti-ATG4D antibody

ATG4D Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40561	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

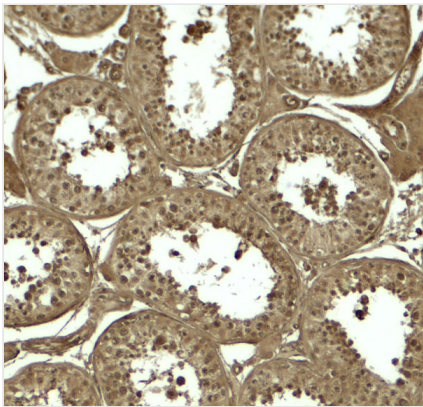
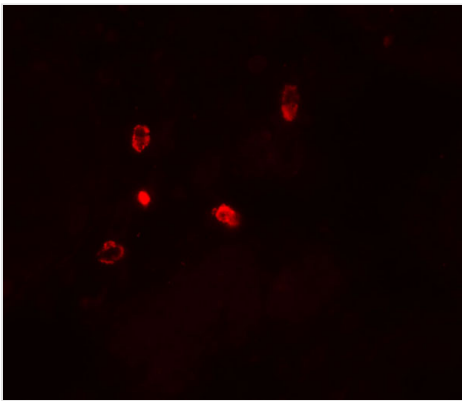
PRODUCT SYNONYMS

ATG4D; Polyclonal Antibody; ATG4D Antibody; Autophagy related 4D cysteine peptidase; APG4D; APG4-D; AUTL4; autophagy related 4D; cysteine peptidase; anti-ATG4D antibody

PRODUCT SPECIFICATIONS

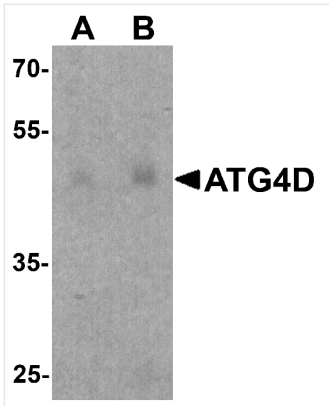
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ATG4D antibody is human, mouse and rat reactive. At least two isoforms of ATG4D are known to exist; this antibody will detect only the larger isoform. ATG4D is predicted to not cross-react with other ATG4 proteins.
Purity/Purification	ATG4D antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	474
Applicable Applications for anti-ATG4D antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	ATG4D antibody was raised against a 17 amino acid peptide near the amino terminus of human ATG4D.
Buffer	ATG4D antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	ATG4D antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.

IMAGES



IF (Immunofluorescence)
Immunofluorescence of ATG4D in human testis tissue with ATG4D antibody at 20 μ g/ml.

IHC (Immunohistochemistry)
Immunohistochemistry of ATG4D in human testis tissue with ATG4D antibody at 5 μ g/ml.



WB (Western Blot)
Western blot analysis of ATG4D in human testis tissue lysate with ATG4D antibody at (A) 1 and (B) 2 μ g/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-ATG4D antibody

Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the normal turnover of cytosolic components (1,2). ATG4D, also known as AURL4, is one of four mammalian orthologs of the yeast ATG4 protein; all four are cysteine proteases (3). ATG4 is required for ATG8 conjugation to phosphatidylethanolamine on autophagosomal membranes. In mammals, each ATG4 homolog shows a selective preference for the ATG8 homologs (4).

NCBI AND UNIPROT INFORMATION

NCBI GI #	27903825
NCBI GeneID	84971
NCBI Accession #	NP_116274
NCBI GenBank Nucleotide #	NM_032885.5
UniProt Accession #	Q86TL0; Q969K0
Molecular Weight	Predicted: 52 kDa Observed: 49 kDa
NCBI Official Full Name	cysteine protease ATG4D isoform 1

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; autophagin-4; APG4 autophagy 4 homolog D; AUT-like 4 cysteine endopeptidase; ATG4 autophagy related 4 homolog D; autophagy-related protein 4 homolog D; cysteine protease involved in autophagy; autophagy-related cysteine endopeptidase 4
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/polyclonal/atg4d-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/40561>