

Datasheet for ABIN6992097
anti-ATG4D antibody (N-Term)



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Overview

Quantity:	0.1 mg
Target:	ATG4D
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG4D antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	ATG4D antibody was raised against a 17 amino acid peptide near the amino terminus of human ATG4D. The immunogen is located within the first 50 amino acids of ATG4D.
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.
Purification:	ATG4D antibody is affinity chromatography purified via peptide column.

Target Details

Target:	ATG4D
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Target Details

Alternative Name:	ATG4D (ATG4D Products)
Background:	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 AUTL4, 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).
Molecular Weight:	Predicted: 52 kDa Observed: 49 kDa
Gene ID:	84971
NCBI Accession:	NP_116274
UniProt:	Q86TL0
Pathways:	Autophagy

Application Details

Application Notes:	ATG4D antibody can be used for detection of ATG4D by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL. Antibody validated: Western Blot in human samples, Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	ATG4D antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Storage: -20 °C, 4 °C

Storage Comment: ATG4D antibody can be stored at 4°C for three months and -20°C, stable for up to one year.