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anti-ATG4D antibody (AA 98-108) (Alkaline Phosphatase (AP))





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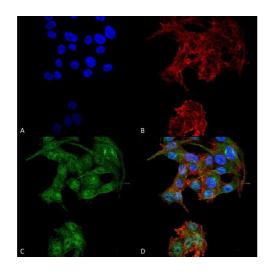
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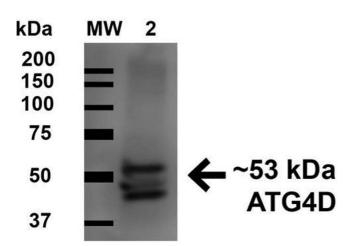
Overview		
Quantity:	100 μg	
Target:	ATG4D	
Binding Specificity:	AA 98-108	
Reactivity:	Human	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This ATG4D antibody is conjugated to Alkaline Phosphatase (AP)	
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)	
Product Details		
Immunogen:	Synthetic peptide from the N-terminal of Human ATG4D (aa. 98-108)	
Isotype:	IgG	
Specificity:	Mainly expressed in skeletal muscle and, to a lower extent, in testis.,Detects ~53 kDa.	
Cross-Reactivity:	Human	
Purification:	Peptide Affinity Purified	
Target Details		
Target:	ATG4D	
Alternative Name:	ATG4D (ATG4D Products)	
Background:	ATG4D, Auotphagy related 4D, cysteine peptidases, belong to the autophagy-related protein 4	

Storage Comment:

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	family of C54 endopeptidases. Members of this family play a role in the biogenesis of autophagosomes (1). Cysteine protease ATG4D: Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins MAP1LC3 and GABARAPL2, to reveal a C-terminal glycine. Exposure of the glycine at the C-terminus is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes, which is necessary for autophagy. Has also an activity of delipidating enzyme for the PE-conjugated forms (2).
Gene ID:	84971
NCBI Accession:	NP_001268433
UniProt:	Q86TL0
Pathways:	Autophagy
Application Details	
Application Notes:	 WB (1:1000) ICC/IF (1:100) optimal dilutions for assays should be determined by the user.
Comment:	A 1:1000 dilution of ABIN5066074 was sufficient for detection of ATG4D in 15 µg of Human HeLa Cell Lysates by ECL immunoblot analysis using goat anti-rabbit lgG:HRP as the secondary antibody.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

Conjugated antibodies should be stored at 4°C





Immunofluorescence (fixed cells)

Image 1. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-ATG4D Polyclonal Antibody. Tissue: Colon carcinoma cell line (RKO). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-ATG4D Polyclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Rabbit ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cytoplasm. Magnification: 60X. (A) DAPI nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) ATG4D Antibody. (D) Composite.

Western Blotting

Image 2. Western blot analysis of Human HeLa cell lysates showing detection of 52.9 kDa ATG4D protein using Rabbit Anti-ATG4D Polyclonal Antibody . Lane 1: Molecular Weight Ladder (MW). Lane 2: Human HeLa cell lysates. Load: 15 μg . Block: 5% Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-ATG4D Polyclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: 52.9 kDa. Other Band(s): ~45 and 48 kDa.