Datasheet for ABIN655395

anti-ATG4D antibody (N-Term)

3 Images

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Overview

Quantity:	400 µL
Target:	ATG4D
Binding Specificity:	AA 42-71, N-Term
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG4D antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This ATG4D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 42-71 amino acids from the N-terminal region of human ATG4D.
Clone:	RB14788
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	ATG4D
Alternative Name:	ATG4D (ATG4D Products)

Target Details

Background:	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.
Molecular Weight:	52922
Gene ID:	84971
NCBI Accession:	NP_001268433, NP_116274
UniProt:	Q86TL0
Pathways:	Autophagy

Application Details

Application Notes:	IF: 1:200. WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
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,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

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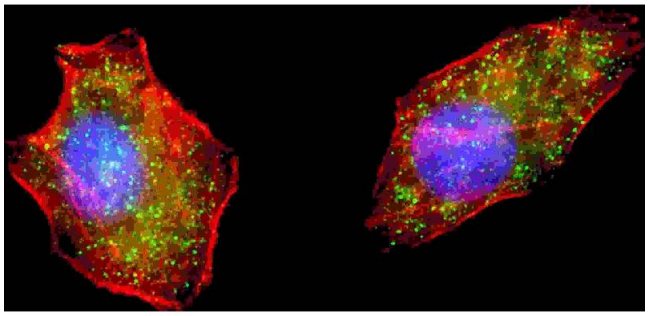
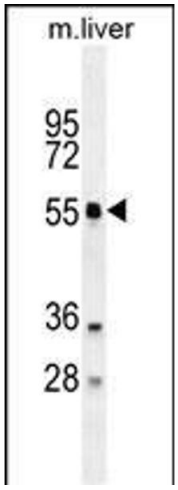


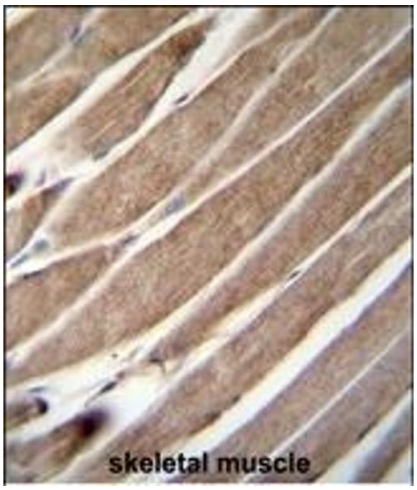
Immunofluorescence

Image 1. Fluorescent image of cells stained with ATG4D (N-term) antibody. cells were treated with Chloroquine (50 µM,16h), then fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.2 %, 30 min). Cells were then incubated with (ABIN655395 and ABIN2844943) ATG4D (N-term) primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (5.25 µM, 25 min). Nuclei were counterstained with Hoechst 33342 (blue) (10 µg/mL, 5 min). Pictures were taken on a Biorevo microscope (BZ-900, Keyence). ATG4D (N-term) immunoreactivity is localized to autophagic vacuoles in the cytoplasm of cells.



Western Blotting

Image 2. ATG4D Antibody (N-term) (ABIN655395 and ABIN2844943) western blot analysis in mouse liver tissue lysates (35 µg/lane).This demonstrates the ATG4D antibody detected the ATG4D protein (arrow).



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. ATG4D Antibody (N-term) (ABIN655395 and ABIN2844943) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ATG4D Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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