

Datasheet for ABIN5066013
anti-ATG4B antibody (AA 94-106) (Atto 488)



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2 Images

Overview

Quantity:	100 µg
Target:	ATG4B
Binding Specificity:	AA 94-106
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG4B antibody is conjugated to Atto 488
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Synthetic peptide from the N-terminal to mid of Human ATG4B (aa. 94-106)
Isotype:	IgG
Specificity:	Mainly expressed in the skeletal muscle, followed by brain, heart, liver and pancreas., Detects ~44 kDa.
Cross-Reactivity:	Human, Mouse
Purification:	Peptide Affinity Purified

Target Details

Target:	ATG4B
Alternative Name:	ATG4B (ATG4B Products)

Target Details

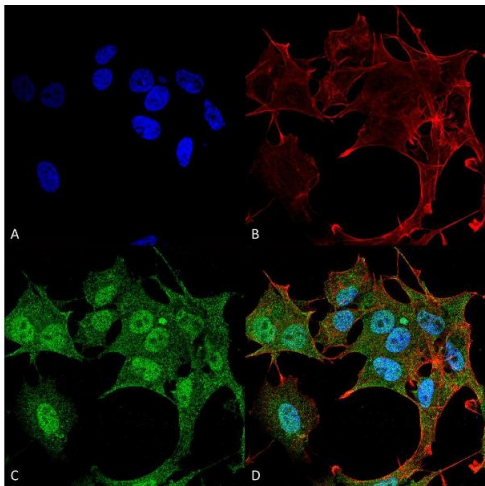
Background:	Autophagy related 4B, cysteine peptidase (ATG4B or APG4B) is a C-54 cysteine protease that also belongs to the family of autophagin poteins. Specifically it cleaves LC3, and mutations can be associated with strong inhibition of autophagosome formation.
Gene ID:	23192
NCBI Accession:	NP_037457
UniProt:	Q9Y4P1
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 ABIN5066013 was sufficient for detection of ATG4B in 15 µg of Human HeLa Cell Lysates by ECL immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

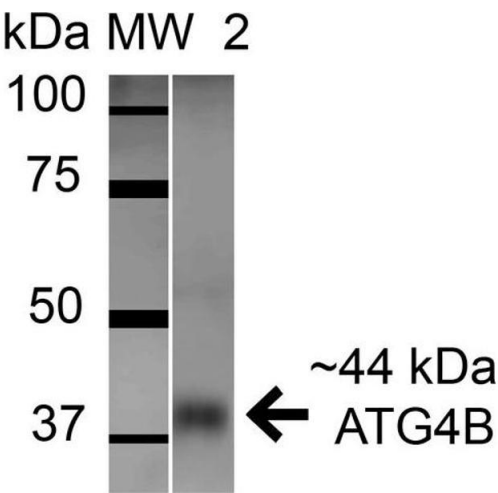
Handling

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
Storage Comment:	Conjugated antibodies should be stored at 4°C



Immunofluorescence (fixed cells)

Image 1. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-ATG4B Polyclonal Antibody . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-ATG4B Polyclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 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, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) ATG4B Antibody (D) Composite.



Western Blotting

Image 2. Western blot analysis of Mouse Brain cell lysates showing detection of ATG4B protein using Rabbit Anti-ATG4B Polyclonal Antibody . Lane 1: Molecular Weight Ladder (MW). Lane 2: Mouse Brain cell lysates. Load: 15 µg . Block: 5% Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-ATG4B 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. Other Band(s): Band appears at ~40 kDa.