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# Datasheet for ABIN388497 anti-ATG4B antibody (AA 258-284)

2 Images



#### Overview

Quantity:	400 µL
Target:	ATG4B
Binding Specificity:	AA 258-284
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG4B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Immunogen:	This ATG4B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 258-284 amino acids from human ATG4B.
Clone:	RB11843
lsotype:	Ig Fraction
Predicted Reactivity:	B, C, Zf, M
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	ATG4B
Alternative Name:	ATG4B (ATG4B Products)

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# Target Details

Background:	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic
	constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic
	enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of
	double-membrane bound autophagosomes which enclose the cytoplasmic constituent
	targeted for degradation in a membrane bound structure, which then fuse with the lysosome
	(or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded
	within the lysosome (or vacuole). APG4, a cysteine protease required for autophagy, cleaves the
	C-terminal part of MAP1LC3 to form the activated molecule LC3-I. LC3-I is subsequently
	conjugated with phosphatidylethanolamine at the C-terminal glycine to form LC3-II, a marker
	for autophagy via its capacity to bind to autophagosomes.

Molecular Weight:	44294
Gene ID:	23192
NCBI Accession:	NP_037457, NP_847896
UniProt:	Q9Y4P1
Pathways:	Autophagy

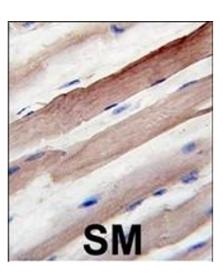
### **Application Details**

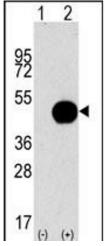
Application Notes:	WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

# 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 smal aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

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#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Formalin-fixed and paraffin-embedded human skeletal muscle reacted with Autophagy G4B Antibody 1809d, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.

#### Western Blotting

**Image 2.** Western blot analysis of G4B (arrow) using purified Pab 1809d. 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the G4B gene (Lane 2) (Origene Technologies).

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