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Datasheet for ABIN388491 anti-ATG4A antibody (AA 1-30)

2 Images



Overview

Quantity:	400 μL
Target:	ATG4A
Binding Specificity:	AA 1-30
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG4A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This ATG4A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from human ATG4A.
Clone:	RB7493
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

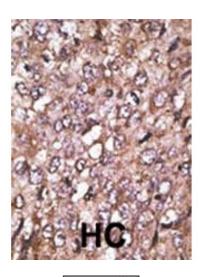
Target:	ATG4A
Alternative Name:	ATG4A (ATG4A Products)
Background:	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic

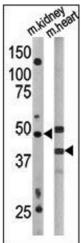
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	constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic
	enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of
	double-membrane bound autophagosomes which enclose the 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). APG4A is a cysteine protease required for autophagy, which
	cleaves the C-terminal part of either MAP1LC3, GABARAPL2 or GABARAP, allowing the
	liberation of form I. A subpopulation of form I is subsequently converted to a smaller form
	(form II). Form II, with a revealed C-terminal glycine, is considered to be the
	phosphatidylethanolamine (PE)-conjugated form, and has the capacity for the binding to
	autophagosomes. Preferred substrate is GABARAPL2 followed by MAP1LC3A and GABARAP.
Molecular Weight:	45378
Gene ID:	115201
NCBI Accession:	NP_443168, NP_840054
UniProt:	Q8WYN0
Pathways:	Autophagy
Application Details	
Application Notes:	WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only
Handling	
Format [.]	Liquid

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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Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.

Western Blotting

Image 2. The anti-G4A Pab 1808a is used in Western blot to detect G4A in mouse kidney (left) and mouse heart (right) tissue lysates

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