antibodies .- online.com







anti-ATG4A antibody (AA 363-392)





Overview
Oughtitus

Quantity:	400 μL
Target:	ATG4A
Binding Specificity:	AA 363-392
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 363-392 amino acids from human ATG4A.
Clone:	RB7555
Isotype:	Ig Fraction
Predicted Reactivity:	В
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by
	dialysis against PBS.
Target Details	

Target: ATG4A

Target Details

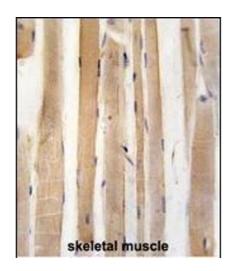
Alternative Name:	ATG4A (ATG4A Products)
Background:	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic
	constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic
	enzymes and organelles during nutrient starvation. Macroautophagy 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). 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
JniProt:	Q8WYN0
Pathways:	Autophagy
Application Details	
Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100. IHC-P: 1:50~100
Restrictions:	For Research Use only
Handling	
-ormat:	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:

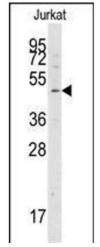
6 months

Images



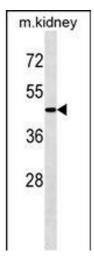
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with Autophagy G4A Antibody (C-term) 1808c, 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 anti-G4A Pab 1808c in Jurkat cell line lysates ($35\,\mu\text{g/lane}$). G4A (arrow) was detected using the purified Pab.



Western Blotting

Image 3. G4A Antibody 1808c western blot analysis in mouse kidney tissue lysates ($35 \,\mu g$ /lane). This demonstrates the G4A antibody detected the G4A protein (arrow).

Please check the product details page for more images. Overall 4 images are available for ABIN388493.