

Datasheet for ABIN1882159

anti-ATG4C antibody (AA 167-196)**3** Images**2** Publications[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	ATG4C
Binding Specificity:	AA 167-196
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG4C antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This ATG4C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 167-196 amino acids from the Central region of human ATG4C.
Clone:	RB7497
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	ATG4C
Alternative Name:	ATG4C (ATG4C Products)
Background:	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic

Target Details

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 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.

Molecular Weight:	52497
NCBI Accession:	NP_116241 , NP_835739
UniProt:	Q96DT6
Pathways:	Autophagy

Application Details

Application Notes:	WB: 1:1000. 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
Expiry Date:	6 months

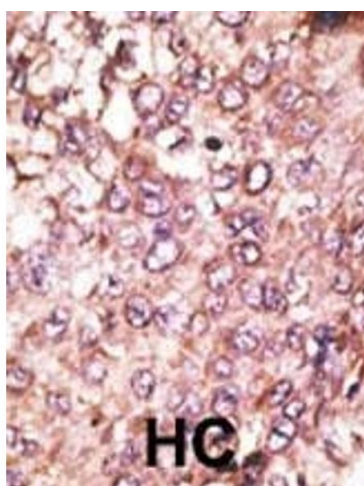
Publications

Product cited in:	Li, Hou, Wang, Chen, Shao, Yin: "Kinetics comparisons of mammalian Atg4 homologues
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indicate selective preferences toward diverse Atg8 substrates." in: **The Journal of biological chemistry**, Vol. 286, Issue 9, pp. 7327-38, (2011) ([PubMed](#)).

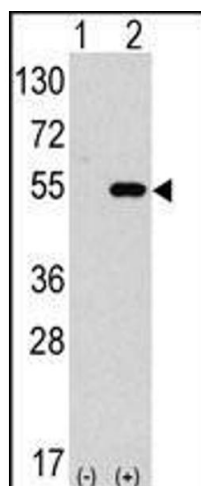
Shintani, Klionsky: "Autophagy in health and disease: a double-edged sword." in: **Science (New York, N.Y.)**, Vol. 306, Issue 5698, pp. 990-5, (2004) ([PubMed](#)).

Images



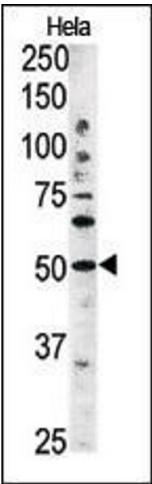
Immunohistochemistry (Paraffin-embedded Sections)

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. Western blot analysis of anti-hG4C- Pab 1810b in 293 cell line lysates transiently transfected with the ATG4C gene (2 µg/lane). hG4C-(arrow) was detected using the purified Pab.



Western Blotting

Image 3. The anti-G4C Pab 1810b is used in Western blot to detect G4C in Hela tissue lysate