

Datasheet for ABIN1882160
anti-ATG4C antibody (C-Term)



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Overview

Quantity:	400 µL
Target:	ATG4C
Binding Specificity:	AA 419-448, C-Term
Reactivity:	Human, Mouse
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 419-448 amino acids from the C-terminal region of human ATG4C.
Clone:	RB7499
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	ATG4C
Alternative Name:	ATG4C (ATG4C Products)

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 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. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

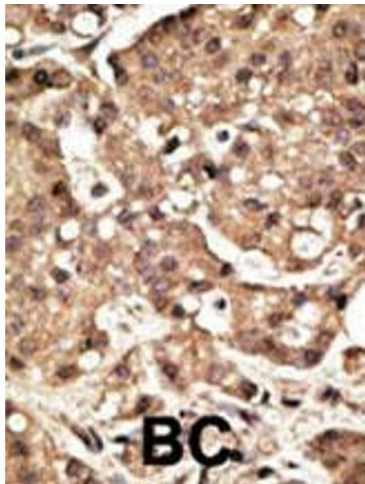
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Product cited in: Ma, Panda, Lin: "Temporal orchestration of circadian autophagy rhythm by C/EBP?". in: **The EMBO journal**, Vol. 30, Issue 22, pp. 4642-51, (2012) ([PubMed](#)).

Norman, Cohen, Bampton: "The in vitro cleavage of the hAtg proteins by cell death proteases." in: **Autophagy**, Vol. 6, Issue 8, pp. 1042-56, (2010) ([PubMed](#)).

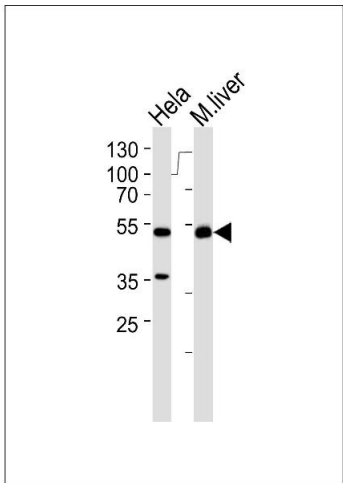
Shintani, Klionsky: "Autophagy in health and disease: a double-edged sword." in: **Science (New York, N.Y.)**, Vol. 306, Issue 5698, pp. 990-5, (2004) ([PubMed](#)).

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 lysates from HeLa cell line and mouse liver tissue lysate(from left to right), using G4C Antibody 1810C. 1810C was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.