Datasheet for ABIN388494

anti-ATG4B antibody (N-Term)

4 Images | 2 Publications

Go to Product page

Overview

Quantity:	400 µL
Target:	ATG4B
Binding Specificity:	AA 16-45, N-Term
Reactivity:	Human, Mouse
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 16-45 amino acids from the N-terminal region of human ATG4B.
Clone:	RB7496
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	ATG4B
Alternative Name:	ATG4B (ATG4B 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:	44294
Gene ID:	23192
NCBI Accession:	NP_037457, NP_847896
UniProt:	Q9Y4P1
Pathways:	Autophagy

Application Details

Application Notes:	WB: 1:1000. 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
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.

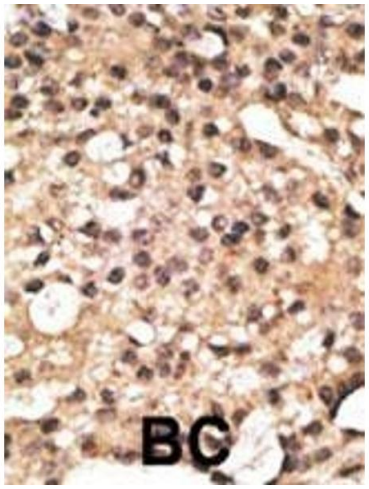
Handling

Expiry Date:	6 months

Publications

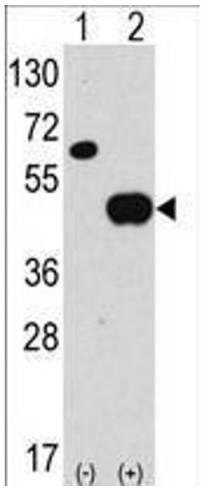
Product cited in:	Hedlund, Karlsson, Osborn, Ludwig, Isacson: "Global gene expression profiling of somatic motor neuron populations with different vulnerability identify molecules and pathways of degeneration and protection." in: **Brain : a journal of neurology**, Vol. 133, Issue Pt 8, pp. 2313-30, (2010) (PubMed).

Images



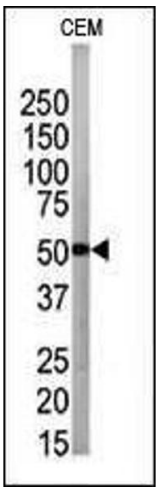
Immunohistochemistry (Paraffin-embedded Sections)

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 DAB 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-hG4B-R31 Pab 1809a in 293 cell line lysates transiently transfected with the ATG4B gene (2 µg/lane). hG4B-R31(arrow) was detected using the purified Pab.



Western Blotting

Image 3. The anti-G4B Pab 1809a is used in Western blot to detect G4B in CEM tissue lysate

Please check the product details page for more images. Overall 4 images are available for ABIN388494.