

Datasheet for ABIN1449637
anti-ATG4B antibody (N-Term)

4 Images

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Overview

Quantity:	0.4 mL
Target:	ATG4B
Binding Specificity:	AA 23-53, 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)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 23~53 amino acids from the N-terminal region of Human APG4B Genename: ATG4B
Isotype:	Ig Fraction
Purification:	Saturated Ammonium Sulfate precipitation followed by dialysis against PBS

Target Details

Target:	ATG4B
Alternative Name:	APG4B / ATG4B (ATG4B 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

Target Details

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. Synonyms: AUT-like 1 cysteine endopeptidase, AUTL1, Autophagin-1, Autophagy-related cysteine endopeptidase 1, Autophagy-related protein 4 homolog B, Cysteine protease ATG4B, KIAA0943

Molecular Weight: 44309 Da

Gene ID: 23192

NCBI Accession: [NP_037457](#)

Pathways: [Autophagy](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.25 mg/mL

Buffer: PBS containing 0.09 % (W/V) Sodium Azide as preservative

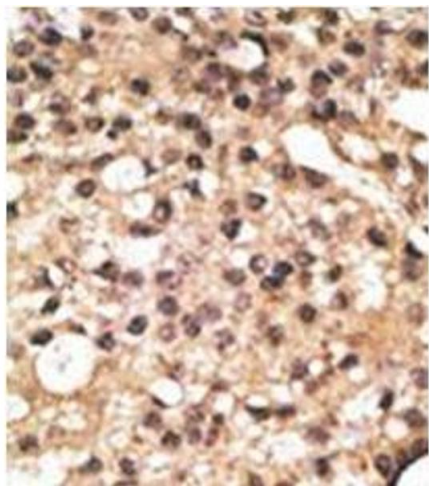
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

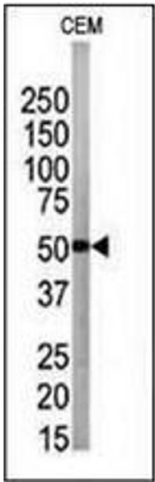
Storage: 4 °C/-20 °C

Storage Comment: Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



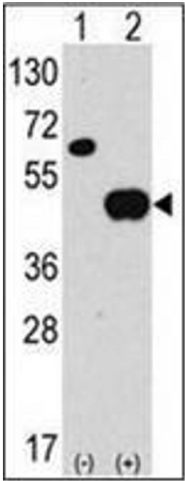
Immunohistochemistry (Paraffin-embedded Sections)

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.



Western Blotting

Image 2. APG4B / ATG4B Antibody used in Western blot to detect APG4B in CEM tissue lysate.



Western Blotting

Image 3. Western blot analysis of APG4B / ATG4B Antibody in 293 cell line lysates transiently transfected with the ATG4B gene (2ug/lane). hAPG4B-R31 (arrow) was detected using the purified Pab (1/60 dilution).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1449637.