



Datasheet for ABIN1449634
anti-ATG4D antibody (AA 227-257)



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4 Images

Overview

Quantity:	0.4 mL
Target:	ATG4D
Binding Specificity:	AA 227-257
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG4D 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 227~257 amino acids from the Center of Human APG4D Genename: ATG4D
Isotype:	Ig Fraction
Purification:	Saturated Ammonium Sulfate precipitation followed by dialysis against PBS

Target Details

Target:	ATG4D
Alternative Name:	APG4D / ATG4D (ATG4D 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 4 cysteine endopeptidase, AUTL4, Autophagin-4, Autophagy-related cysteine endopeptidase 4, Autophagy-related protein 4 homolog D, Cysteine protease ATG4D

Molecular Weight: 52922 Da

Gene ID: 84971

NCBI Accession: [NP_116274](#)

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

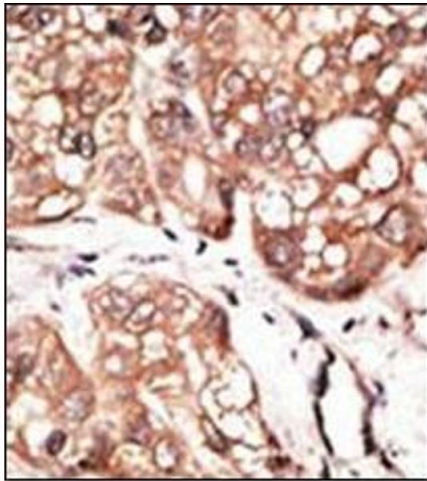
Preservative: Sodium azide

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.

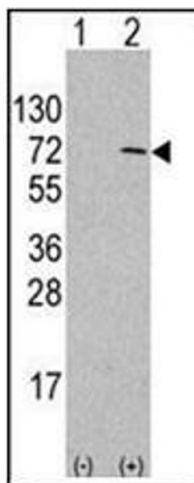
Storage: 4 °C/-20 °C

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



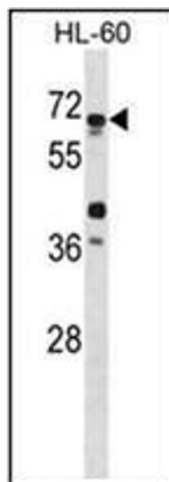
Immunohistochemistry (Paraffin-embedded Sections)

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 AEC staining.



Western Blotting

Image 2. Western blot analysis of ATG4D Antibody in 293 cell line lysates transiently transfected with the APG4D gene (2ug/lane). hAPG4D-L235 (arrow) was detected using the purified Pab (1:60 dilution).



Western Blotting

Image 3. Western blot analysis of ATG4D Antibody in HL-60 cell line lysate.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1449634.