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Datasheet for ABIN1449633

anti-ATG4A antibody (C-Term)

4 Images

Overview

Quantity:	0.4 mL
Target:	ATG4A
Binding Specificity:	AA 369-398, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG4A 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 369~398 amino acids from the C-term of Human APG4A
Isotype:	Ig Fraction
Purification:	Saturated Ammonium Sulfate precipitation followed by dialysis against PBS

Target Details

Target:	ATG4A
Alternative Name:	Autophagin-2 (ATG4A 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). APG4A 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. Preferred substrate is GABARAPL2 followed by MAP1LC3A and GABARAP. Synonyms: APG4A, ATG4A, AUT-like 2 cysteine endopeptidase, AUTL2, Autophagy-related cysteine endopeptidase 2, Autophagy-related protein 4 homolog A, Cysteine protease ATG4A

Molecular Weight: 45378 Da

Gene ID: 115201

NCBI Accession: [NP_443168](#)

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.

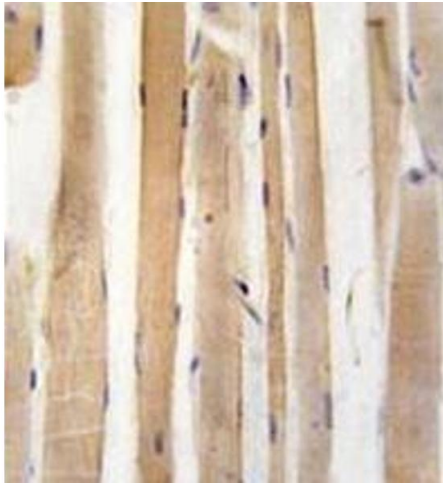
Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Handling

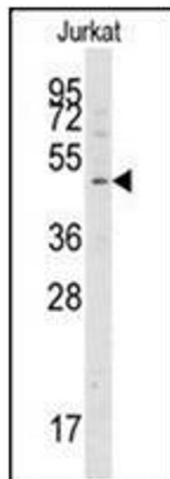
Storage Comment: Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Images



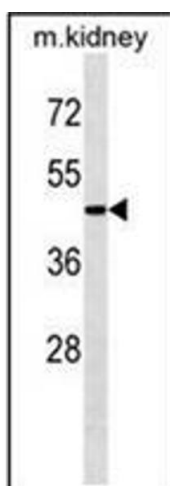
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-Fixed, Paraffin-Embedded human skeletal muscle tissue reacted with Autophagy ATG4A Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.



Western Blotting

Image 2. Western blot analysis of ATG4A Antibody in Jurkat cell line lysates (35ug/lane).



Western Blotting

Image 3. Western blot analysis of ATG4A Antibody in Mouse kidney tissue lysates (35ug/lane).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1449633.