



[Go to Product page](#)

Datasheet for ABIN388523
anti-ATG7 antibody (C-Term)

5 Images

2 Publications

Overview

Quantity:	400 µL
Target:	ATG7
Binding Specificity:	AA 540-569, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This ATG7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 540-569 amino acids from the C-terminal region of human ATG7.
Clone:	RB7474
Isotype:	Ig Fraction
Predicted Reactivity:	C, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	ATG7
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Target Details

Alternative Name: [ATG7 \(ATG7 Products\)](#)

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 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). APG7 functions as an E1 enzyme essential for multisubstrates such as GABARAPL1 and ATG12. APG3L is an E2-like conjugating enzyme facilitating covalent binding of APG8 (MAP1LC3) to phosphatidylethanolamine (PE). APG7 (an E1-like enzyme) facilitates this reaction by forming an E1-E2 complex with APG3. Formation of the PE conjugate is essential for autophagy.

Molecular Weight: 77960

Gene ID: 10533

NCBI Accession: [NP_001129503](#), [NP_001138384](#), [NP_006386](#)

UniProt: [O95352](#)

Pathways: [Response to Water Deprivation](#), [Autophagy](#)

Application Details

Application Notes: IF: 1:25. WB: 1:1000. WB: 1:1000. WB: 1:500. IHC-P-Leica: 1:1000

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.

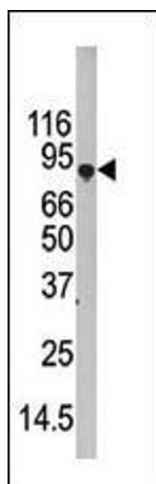
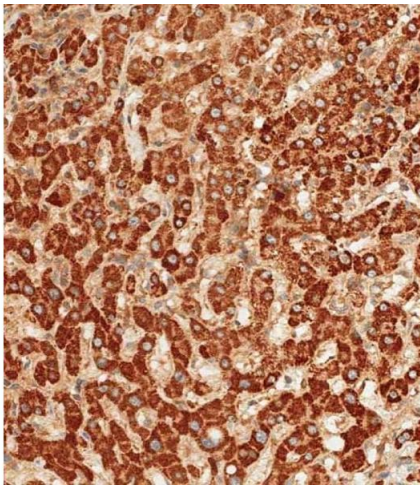
Handling

Expiry Date: 6 months

Publications

Product cited in: Wang, Wang, Liu, Liu, Tay, Walsh, Yang, Wu: "CRISPR/Cas9 mediated genome editing of *Helicoverpa armigera* with mutations of an ABC transporter gene *HaABCA2* confers resistance to *Bacillus thuringiensis* Cry2A toxins." in: **Insect biochemistry and molecular biology**, Vol. 87, pp. 147-153, (2017) ([PubMed](#)).

Images

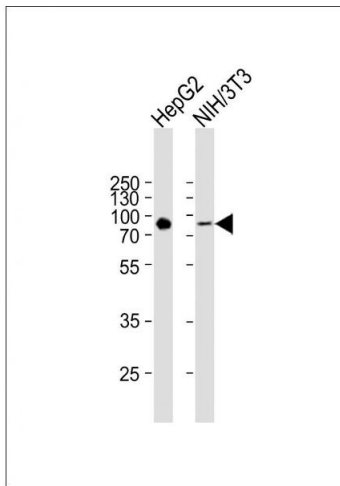


Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical analysis of paraffin-embedded human liver tissue using D performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH 9.0). Samples were incubated with primary Antibody (1:1000) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

Western Blotting

Image 2. Western blot analysis of G7L Pab 1813d in 293 cell line lysate (35 µg/lane). G7L (arrow) was detected using the purified Pab.



Western Blotting

Image 3. All lanes : Anti-ATG7 Antibody (C-term) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: NIH/3T3 whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 78 kDa Blocking/Dilution buffer: 5 % NFDN/TBST.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN388523.