Datasheet for ABIN7174567

anti-ATG3 antibody (AA 1-314)

4 Images

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Overview

Quantity:	100 µg
Target:	ATG3
Binding Specificity:	AA 1-314
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Ubiquitin-like-conjugating enzyme ATG3 protein (1-314AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	ATG3
Alternative Name:	ATG3 (ATG3 Products)
Background:	Background: E2 conjugating enzyme required for the cytoplasm to vacuole transport (Cvt), autophagy, and mitochondrial homeostasis. Responsible for the E2-like covalent binding of

Target Details

	phosphatidylethanolamine to the C-terminal Gly of ATG8-like proteins (GABARAP, GABARAPL1, GABARAPL2 or MAP1LC3A). The ATG12-ATG5 conjugate plays a role of an E3 and promotes the transfer of ATG8-like proteins from ATG3 to phosphatidylethanolamine (PE). This step is required for the membrane association of ATG8-like proteins. The formation of the ATG8-phosphatidylethanolamine conjugates is essential for autophagy and for the cytoplasm to vacuole transport (Cvt). Preferred substrate is MAP1LC3A. Also acts as an autocatalytic E2-like enzyme, catalyzing the conjugation of ATG12 to itself, ATG12 conjugation to ATG3 playing a role in mitochondrial homeostasis but not in autophagy. ATG7 (E1-like enzyme) facilitates this reaction by forming an E1-E2 complex with ATG3. Promotes primary ciliogenesis by removing OFD1 from centriolar satellites via the autophagic pathway. Aliases: 2610016C12Rik antibody, Apg 3 antibody, APG3 antibody, APG3 autophagy 3 like antibody, APG3 like antibody, APG3, S. cerevisiae, homolog of antibody, APG3-like antibody, APG3L antibody, Apg3p antibody, ATG 3 antibody, ATG3 antibody, ATG3 autophagy related 3 homolog antibody, ATG3 autophagy related 3 homolog (S. cerevisiae) antibody, ATG3_HUMAN antibody, Autophagy 3, S. cerevisiae, homolog of antibody, Autophagy Apg3p/Aut1p like antibody, autophagy related 3 antibody, Autophagy related protein 3 antibody, Autophagy-related protein 3 antibody, DKFZp564M1178 antibody, FLJ22125 antibody, hApg3 antibody, MGC15201 antibody, OTTHUMP00000214547 antibody, OTTHUMP00000214548 antibody, PC3 96 antibody, Protein PC3-96 antibody, Ubiquitin-like-conjugating enzyme ATG3 antibody
UniProt:	Q9NT62
Pathways:	Autophagy

Application Details

Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:1000-1:2000, IF:1:200-1:500,
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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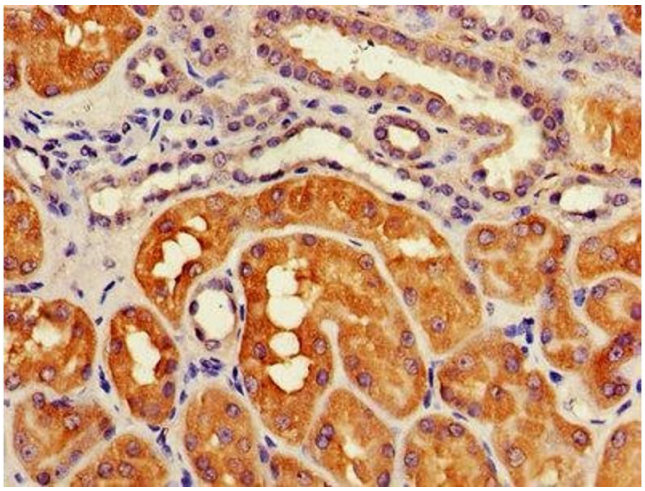
Handling

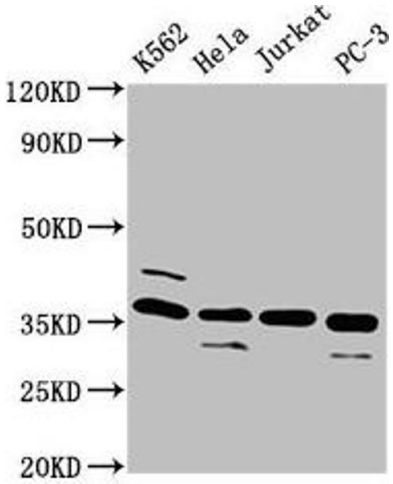
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



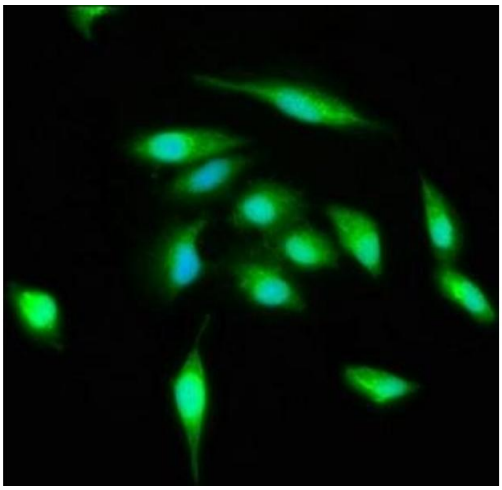
Immunohistochemistry

Image 1. IHC image of ABIN7174567 diluted at 1:1200 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Western Blotting

Image 2. Western Blot Positive WB detected in: K562 whole cell lysate, Hela whole cell lysate, Jurkat whole cell lysate, PC-3 whole cell lysate All lanes: ATG3 antibody at 4 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 36 kDa Observed band size: 36 kDa



Immunofluorescence

Image 3. Immunofluorescence staining of Hela cells with ABIN7174567 at 1:400, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).

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Images

Please check the product details page for more images. Overall 4 images are available for ABIN7174567.

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