

Datasheet for ABIN388542

**anti-ATG16L1 antibody (AA 161-190)**

5 Images

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## Overview

Quantity:	400 µL
Target:	ATG16L1
Binding Specificity:	AA 161-190
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG16L1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This ATG16L antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 161-190 amino acids from human ATG16L.
Clone:	RB07490
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	ATG16L1
Alternative Name:	ATG16L ( <a href="#">ATG16L1 Products</a> )

## Target Details

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). The APG12-APG5-APG16L complex is essential for the elongation of autophagic isolation membranes. This complex initially associates in uniform distribution with small vesicle membranes. During membrane elongation, the complex partitions, with a great concentration building on the outer side of the isolation membrane. Upon completion of the formation of the autophagosome, the APG12-APG5-APG16L dissociates from the membrane.
Molecular Weight:	68265
Gene ID:	55054
NCBI Accession:	<a href="#">NP_001177195</a> , <a href="#">NP_001177196</a> , <a href="#">NP_060444</a> , <a href="#">NP_110430</a> , <a href="#">NP_942593</a>
UniProt:	<a href="#">Q676U5</a>
Pathways:	<a href="#">Autophagy</a>

## Application Details

Application Notes:	IF: 1:25. WB: 1:1000. WB: 1:1000. WB: 1:1000. WB: 1:1000. IHC-P: 1:10~50
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

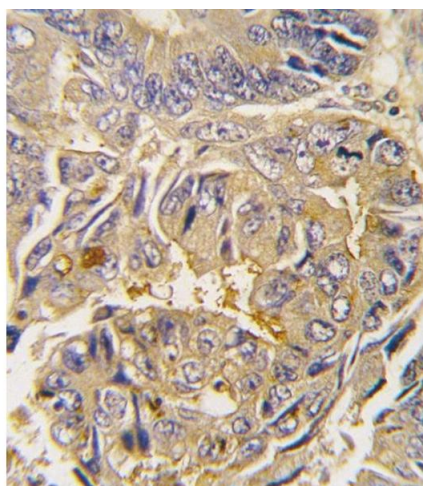
Expiry Date: 6 months

## Publications

Product cited in: Hedlund, Karlsson, Osborn, Ludwig, Isacson: "Global gene expression profiling of somatic motor neuron populations with different vulnerability identify molecules and pathways of degeneration and protection." in: **Brain : a journal of neurology**, Vol. 133, Issue Pt 8, pp. 2313-30, (2010) ([PubMed](#)).

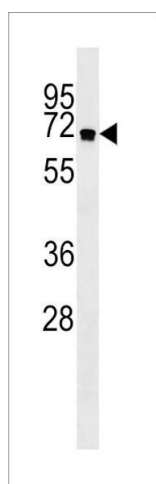
There are more publications referencing this product on: [Product page](#)

## Images



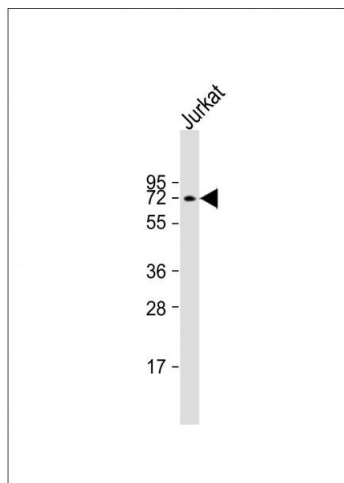
### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with Autophagy G16L antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



### Western Blotting

**Image 2.** G16L Antibody 1817b western blot analysis in NCI-cell line lysates (35 µg/lane). This demonstrates the G16L antibody detected the G16L protein (arrow).



### Western Blotting

**Image 3.** Anti-ATG16L Antibody at 1:1000 dilution + Jurkat whole cell lysate. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 68 kDa. Blocking/Dilution buffer: 5 % NFDM/TBST.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN388542.