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Rabbit Anti-ATG16L antibody

SL4007R

Product Name:	ATG16L
Chinese Name:	自噬相关蛋白16A抗体
Alias:	A16L1_HUMAN; APG16 like 1; APG16-like 1; APG16L; APG16L beta; ATG16A; ATG16 autophagy related 16 like 1; ATG16 autophagy related 16-like 1 (S. cerevisiae); ATG16 autophagy related 16-like 1; ATG16A; ATG16L; ATG16L1; Autophagy related protein 16 1; Autophagy-related protein 16-1; FLJ00045; FLJ10035; FLJ10828; FLJ22677; IBD10; OTTHUMP00000164391; OTTHUMP00000164393; OTTHUMP00000165876; OTTHUMP00000165877; WD repeat domain 30; WDR30.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	68kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ATG16A:501-607/607
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene is part of a large protein complex that is necessary for autophagy, the major process by which intracellular components are targeted to

lysosomes for degradation. Defects in this gene are a cause of susceptibility to inflammatory bowel disease type 10 (IBD10). Several transcript variants encoding different isoforms have been found for this gene.

Function:
Plays an essential role in autophagy (By similarity).

Subunit:
Homooligomer. Interacts with ATG5. Part of either the minor and major complexes respectively composed of 4 sets of ATG12-ATG5 and ATG16L1 (400 kDa) or 8 sets of ATG12-ATG5 and ATG16L1 (800 kDa).

Subcellular Location:
Cytoplasm (By similarity). Preautophagosomal structure membrane; Peripheral membrane protein (By similarity). Note=Localized to preautophagosomal structure (PAS) where it is involved in the membrane targeting of ATG5 (By similarity).

DISEASE:
Genetic variations in ATG16L1 are associated with susceptibility to inflammatory bowel disease type 10 (IBD10) [MIM:611081]. IBD is characterized by a chronic relapsing intestinal inflammation. IBD is subdivided into Crohn disease (CD) and ulcerative colitis phenotypes. IBD10 individuals show the phenotype characteristic to CD. It may involve any part of the gastrointestinal tract, but most frequently the terminal ileum and colon. CD is commonly classified as autoimmune disease.

Similarity:
Belongs to the WD repeat ATG16 family.
Contains 7 WD repeats.

SWISS:
Q676U5

Gene ID:
55054

Database links:

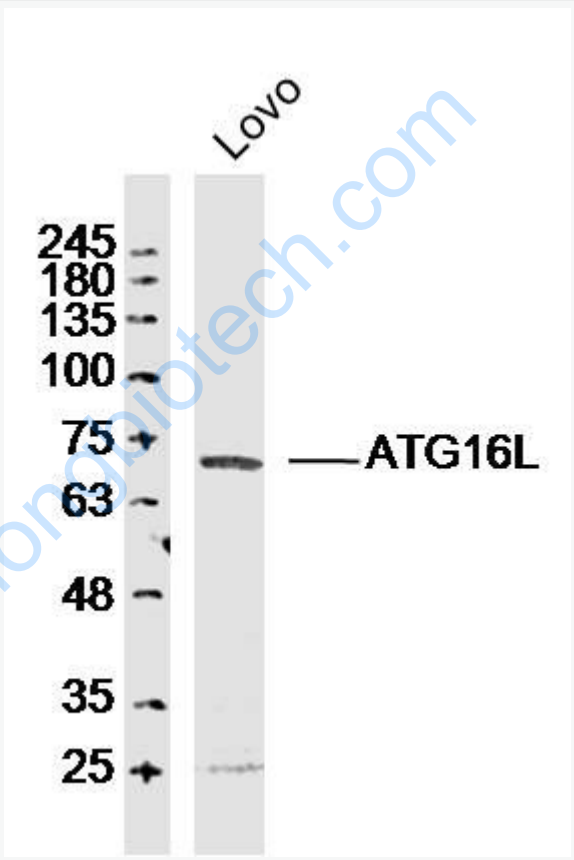
Entrez Gene: 55054 Human

Entrez Gene: 77040 Mouse

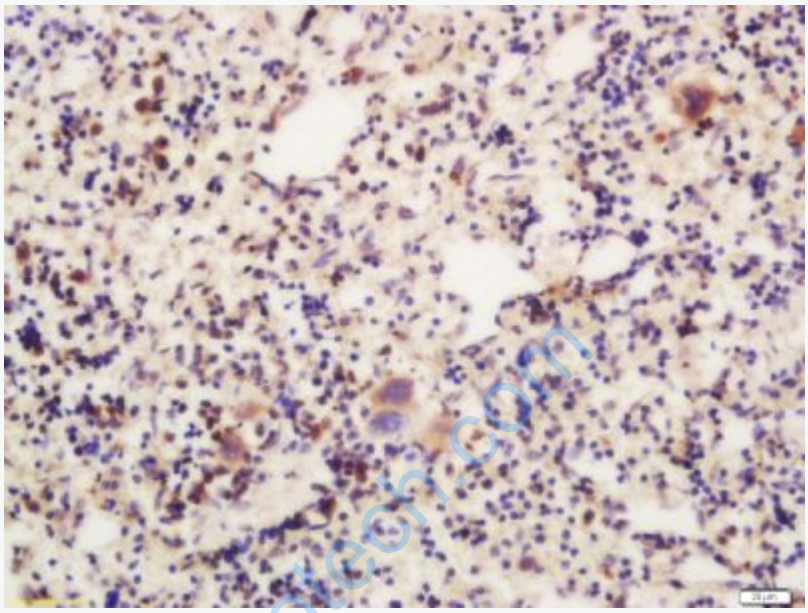
Omim: 610767 Human

SwissProt: Q676U5 Human

SwissProt: Q8C0J2 Mouse

	Unigene: 529322 Human Unigene: 272972 Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample: Lovo Cell (Human) Lysate at 30 ug Primary: Anti- ATG16L (SL4007R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 68kD

Observed band size: 68kD



Tissue/cell: mouse spleen tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-ATG16L Polyclonal Antibody, Unconjugated(SL4007R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining