

Product datasheet for **TA336540**

ATG16L1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	Electron Microscopy, IHC, WB
Recommended Dilution:	Electron Microscopy: 1:10-1:500, Western Blot: 0.5-2 ug/ml, Immunohistochemistry: 1:250 - 1:500, Immunohistochemistry-Paraffin
Reactivity:	Human, Mouse, Rat, Bovine, Canine, Primate
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide within residues 1-100 of human ATG16L1 protein. [Swiss-Prot# Q676U5]
Formulation:	PBS, 0.02% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	68 kDa
Gene Name:	autophagy related 16 like 1
Database Link:	NP_110430 Entrez Gene 77040 Mouse Entrez Gene 363278 Rat Entrez Gene 55054 Human Q676U5



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Background:

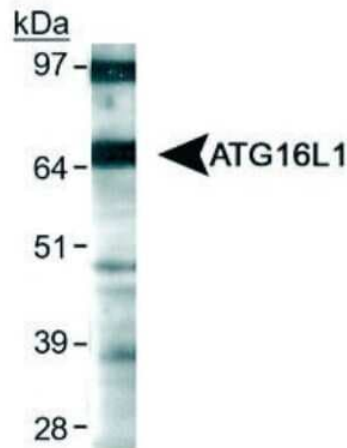
Atg16L1 (autophagy-related protein 16-1) forms a component of a protein complex that directs LC3 to autophagosomes en route to their fusion with lysosomes, thereby playing a key role in the process of autophagosome maturation. Atg16L1 belongs to WD repeat ATG16 family, exist as homooligomer and interacts with ATG5 as well as RAB33B, and forms a part of either the minor and major complexes respectively composed of 4 sets of ATG12-ATG5 and ATG16L1 (400 kD) or 8 sets of ATG12-ATG5 and ATG16L1 (800 kD). It is found in cytoplasm and gets localized to preautophagosomal structure where it is implicated in the membrane targeting of ATG5. Mice deficient in Atg16L1 (Atg16L1HM) display reduced autophagy and develop, on viral infection, intestinal abnormalities similar to pathologies found in Crohn's disease patients, including abnormalities in the integrity, architecture, and function of Paneth cells, which are specialized secretory epithelial cells of the small intestine. Atg16L1 has also been shown to play a role in modulating proinflammatory responses and population genetic studies have positively linked a common polymorphism in ATG16L1 gene with inflammatory bowel disease type 10 (IBD10).

Synonyms:

APG16L; ATG16A; ATG16L; IBD10; WDR30

Note:

In Western blot analysis, a specific band is seen at ~68kDa. Electron Microscopy and IHC-P applications are reported in scientific literature (PMIDs 22531915 and 25060858 respectively).

Product images:

Western Blot: ATG16L1 Antibody TA336540 - Detection of ATG16L1 using TA336540 in HeLa whole cell extracts.