

Atg16 Polyclonal Antibody

Catalog No :	YT0391
Reactivity :	Human;Mouse
Applications :	WB;ELISA
Target :	Atg16
Fields :	>>Autophagy - other;>>Autophagy - animal;>>NOD-like receptor signaling pathway;>>Shigellosis
Gene Name :	ATG16L1
Protein Name :	Autophagy-related protein 16-1
Human Gene Id :	55054
Human Swiss Prot No :	Q676U5
Mouse Swiss Prot No :	Q8C0J2
Immunogen :	Synthesized peptide derived from Atg16 . at AA range: 60-140
Specificity :	Atg16 Polyclonal Antibody detects endogenous levels of Atg16 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 70kD**Background :**

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.[provided by RefSeq, Jun 2010],

Function :

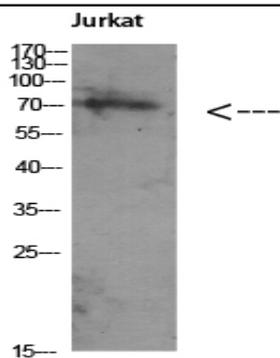
disease:Genetic variations in ATG16L1 are associated with susceptibility to inflammatory bowel disease type 10 (IBD10) [MIM:611081]. IBD is characterized by a chronic relapsing intestinal inflammation. IBD is subdivided into Crohn disease (CD) and ulcerative colitis phenotypes. IBD10 individuals show 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.,function:Plays an essential role in autophagy.,sequence caution:Wrong choice of CDS.,similarity:Belongs to the WD repeat ATG16 family.,similarity:Contains 7 WD repeats.,subcellular location:Localized to preautophagosomal structure (PAS) where it is involved in the membrane targeting of ATG5.,subunit:Homooligomer. Interacts with ATG5. Part of either the minor and major complexes respectively composed of 4

Subcellular Location :

Cytoplasm . Preautophagosomal structure membrane ; Peripheral membrane protein . Endosome membrane ; Peripheral membrane protein . Lysosome membrane ; Peripheral membrane protein . Recruited to omegasomes membranes by WIPI2 (By similarity). Omegasomes are endoplasmic reticulum connected structures at the origin of preautophagosomal structures (By similarity). Localized to preautophagosomal structure (PAS) where it is involved in the membrane targeting of ATG5 (By similarity). Localizes also to discrete punctae along the ciliary axoneme (By similarity). Upon activation of non-canonical autophagy, recruited to single-membrane endolysosomal compartments (PubMed:29317426). .

Expression : Brain,Colon,Epithelium,Fetal brain,Human lung,Mammary gland,Placenta,Small

Products Images



Western Blot analysis of Jurkat using Antibody diluted at 1:1000.
Secondary antibody(catalog#:RS0002) was diluted at 1:20000