

ATG16L1 polyclonal antibody

Catalog: BS61617

Host: Rabbit

Reactivity: Human

BackGround:

Mammalian Atg16L1, containing an amino-terminal coiled coil domain and carboxyl-terminal WD-repeats, has multiple isoforms produced by alternative splicing. Atg16L1 provides a functional link between the two crucial ubiquitin-like conjugation systems of autophagy. Atg16L1 binds Atg5 of the Atg12-Atg5 conjugate forming an 800 kDa multimeric complex. The Atg12-Atg-5-Atg16L1 complex localizes to pre-autophagosomal membranes where it determines the site of LC3 lipidation and catalyzes the reaction required for the formation of mature autophagosomes. Genome-wide association scanning revealed variations in the Atg16L1 gene associated with Crohn's disease. Mice lacking the coiled coil domain of Atg16L1 have impaired autophagosome formation and elevated inflammatory cytokines, consistent with its role in inflammatory disease pathogenesis. Hypomorphic Atg16L1 mice also show defects in autophagy and abnormalities in intestinal Paneth cell function similar to that found in Crohn's disease.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 72 kDa

Swiss-Prot:

Q676U5

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)

Applications:

WB: 1:500~1:1000

Storage&Stability:

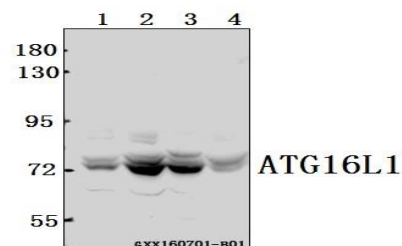
Store at 4 °C short term. Aliquot and store at -20 °C long term.

Avoid freeze-thaw cycles.

Specificity:

ATG16L1 polyclonal antibody detects endogenous levels of ATG16L1 protein.

DATA:



Western blot (WB) analysis of ATG16L1 polyclonal antibody at 1:500 dilution

Lane1:A549 whole cell lysate(40ug)

Lane2:PC3 whole cell lysate(40ug)

Lane3:HCT116 whole cell lysate(40ug)

Lane4:HepG2 whole cell lysate(40ug)

Note:

For research use only, not for use in diagnostic procedure.

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