

ATG16L1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50140

Basic Information

Catalog No.

RM50140

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

ATG16L1

Species

Human

Gene ID

55054

Swiss Prot

Q676U5

Synonyms

IBD10; WDR30; APG16L; ATG16A;
ATG16L; ATG16L1

Contact

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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.

Product Information

Description

ATG16L1 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:exon1 was deleted

Allele-2:exon1 was deleted

Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles.

Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins.

Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging

1 vial parental cell Lysate and 1 vial knockout cell Lysate

Shipping Conditions

4°C

Amount

50µL, 2µg/µL.

Storage

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

Protocol

To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Sequencing data

WT CCGTCAGCCCTCGC*****GGTGCGGGCTGGGA
Mut CCGTCAGCCCTCGC***Deletion***GGTGCGGGCTGGGA
Allele-1: exon1 was deleted

WT CCGTCAGCCCTCGC*****GGTGCGGGCTGGGA
Mut CCGTCAGCCCTCGC***Deletion***GGTGCGGGCTGGGA
Allele-2: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and ATG16L1 knockout (KO) HeLa cells, using sanger sequencing.