

# 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

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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.