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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

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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℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. 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
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Genome sequence analysis of PCR products from parental (WT) and ATG16L1 knockout (KO) HeLa cells, using sanger sequencing.