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ATG5 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02308

Basic Information

Catalog No.
RM02308

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
ATG5

Species
Human

Gene ID
9474

Swiss Prot
Q9H1Y0

Synonyms
APG5; APG5-LIKE; APG5L; ASP; hAPG5

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Background

The protein encoded by this gene, in combination with autophagy protein 12, functions as an E1-like activating enzyme in a ubiquitin-like conjugating system. The encoded protein is involved in several cellular processes, including autophagic vesicle formation, mitochondrial quality control after oxidative damage, negative regulation of the innate antiviral immune response, lymphocyte development and proliferation, MHC II antigen presentation, adipocyte differentiation, and apoptosis. Several transcript variants encoding different protein isoforms have been found for this gene. [provided by RefSeq, Sep 2015]

Product Information

Description
ATG5 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:exon2 was deleted
Allele-2:exon2 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    AGCCTAGGCACGTA**************TCCCATTTGTGATA
Mut   AGCCTAGGCACGTA***Deletion***TCCCATTTGTGATA
Allele-1: exon2 was deleted

WT    CCTAGGCACGTAAC**************ATTTGTGATACATA
Mut   CCTAGGCACGTAAC***Deletion***ATTTGTGATACATA
Allele-2: exon2 was deleted
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Genome sequence analysis of PCR products from parental (WT) and ATG5 Knockout (KO) 293T cells, using sanger sequencing.