

# BECN1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM01770

## Basic Information

### Catalog No.

RM01770

### Category

Cell Lysate

### Parental Cell line

293T

### Genotype

Knockout

## Gene Information

### Species

Human

### Gene ID

8678

### Swiss Prot

Q14457

### Synonyms

ATG6; VPS30; beclin1

## Contact

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## Background

This gene encodes a protein that regulates autophagy, a catabolic process of degradation induced by starvation. The encoded protein is a component of the phosphatidylinositol-3-kinase (PI3K) complex which mediates vesicle-trafficking processes. This protein is thought to play a role in multiple cellular processes, including tumorigenesis, neurodegeneration and apoptosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

## Product Information

### Description

BECN1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:104bp deletion in exon1

Allele-2:104bp deletion in exon1

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 TCTTTCCACGGCC\*\*\*\*\*CCGTGCACCATCC  
Mut TCTTTCCACGGCC\*\*\*Deletion\*\*\*CCGTGCACCATCC  
Allele-1: 104bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and BECN1 knockout (KO) 293T cells, using sanger sequencing.

WT TCTTTCCACGGCC\*\*\*\*\*CCGTGCACCATCC  
Mut TCTTTCCACGGCC\*\*\*Deletion\*\*\*CCGTGCACCATCC  
Allele-2: 104bp deletion in exon1