

# ARHGEF1 Knockout 293T Cell Lysate, Homozygous

**Catalog No.:** RM02495

## Basic Information

**Catalog No.**

RM02495

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

ARHGEF1

**Species**

Human

**Gene ID**

9138

**Swiss Prot**

Q92888

**Synonyms**

GEF1; LBCL2; LSC; P115-RHOGEF;  
SUB1.5

## Contact

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## Background

Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form complex with G proteins and stimulate Rho-dependent signals. Multiple alternatively spliced transcript variants have been found for this gene, but the full-length nature of some variants has not been defined. [provided by RefSeq, Jul 2008]

## Product Information

**Description**

ARHGEF1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1: exon6 was deleted

Allele-2: exon6 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 CACCCTCGCTTAGA\*\*\*\*\*GCGGGGACCACAC  
Mut CACCCTCGCTTAGA\*\*\*Deletion\*\*\*GCGGGGACCACAC  
Allele-1: exon6 was deleted

WT GCACCCTCGCTTAG\*\*\*\*\*GAGGCCAAGGGGAG  
Mut GCACCCTCGCTTAG\*\*\*Deletion\*\*\*GAGGCCAAGGGGAG  
Allele-2: exon6 was deleted

Genome sequence analysis of PCR products from parental (WT) and ARHGEF1 knockout (KO) 293T cells, using sanger sequencing.