

# RARA Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50145

## Basic Information

### Catalog No.

RM50145

### Category

Cell Lysate

### Parental Cell line

293T

### Genotype

Knockout

## Gene Information

### Gene Symbol

RARA

### Species

Human

### Gene ID

5914

### Swiss Prot

P10276

### Synonyms

RAR; NR1B1; RARalpha; RAR $\alpha$

## Contact

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## Background

This gene represents a nuclear retinoic acid receptor. The encoded protein, retinoic acid receptor alpha, regulates transcription in a ligand-dependent manner. This gene has been implicated in regulation of development, differentiation, apoptosis, granulopoiesis, and transcription of clock genes. Translocations between this locus and several other loci have been associated with acute promyelocytic leukemia. Alternatively spliced transcript variants have been found for this locus.

## Product Information

### Description

RARA Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:70bp deletion in exon1

Allele-2:70bp 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 CTACACGCTGACGC\*\*\*\*\*GGGCAAATACACTA  
Mut CTACACGCTGACGC\*\*\*Deletion\*\*\*GGGCAAATACACTA  
Allele-1: 70bp deletion in exon1

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

WT CTACACGCTGACGC\*\*\*\*\*GGGCAAATACACTA  
Mut CTACACGCTGACGC\*\*\*Deletion\*\*\*GGGCAAATACACTA  
Allele-2: 70bp deletion in exon1