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RARA Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50145

Basic Information

Catalog No.
RM50145

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

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, granulopoeisis, 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.

Gene Information

Gene Symbol
RARA

Species
Human

Gene ID
5914

Swiss Prot
P10276

Synonyms
RAR; NR1B1; RARalpha; RAR□

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℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

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.

Contact

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Sequencing data

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

WT    CTACACGCTGACGC**********GGGCAAATACACTA
Mut   CTACACGCTGACGC***Deletion***GGGCAAATACACTA
Allele-2:   70bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and RARA knockout (KO) 293T cells, using sanger sequencing.

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