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PPARG Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM01978

Basic Information

Catalog No.
RM01978

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a member of the peroxisome proliferator-activated receptor (PPAR) subfamily of nuclear receptors. PPARs form heterodimers with retinoid X receptors (RXRs) and these heterodimers regulate transcription of various genes. Three subtypes of PPARs are known: PPAR-alpha, PPAR-delta, and PPAR-gamma. The protein encoded by this gene is PPAR-gamma and is a regulator of adipocyte differentiation. Additionally, PPAR-gamma has been implicated in the pathology of numerous diseases including obesity, diabetes, atherosclerosis and cancer. Alternatively spliced transcript variants that encode different isoforms have been described. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
PPARG

Species
Human

Gene ID
5468

Swiss Prot
P37231

Synonyms
CIMT1; GLM1; NR1C3; PPARG1; PPARG2; PPARgamma

Product Information

Description
PPARG Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:77bp deletion in exon1
Allele-2:77bp 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.

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Sequencing data

WT TGGATCTCTCCGTA**********TGGATCTCTCCGTA
Mut TGGATCTCTCCGTA***Deletion***TGGATCTCTCCGTA
Allele-1: 77bp deletion in exon1

WT TGGATCTCTCCGTA**********TGGATCTCTCCGTA
Mut TGGATCTCTCCGTA***Deletion***TGGATCTCTCCGTA
Allele-2: 77bp deletion in exon1

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

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