

PPARG Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM01978

Basic Information

Catalog No.

RM01978

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

PPARG

Species

Human

Gene ID

5468

Swiss Prot

P37231

Synonyms

CIMT1; GLM1; NR1C3; PPARG1; PPARG2; PPARGgamma

Contact

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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]

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°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

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.