

NPY Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02471

Basic Information

Catalog No.

RM02471

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

NPY

Species

Human

Gene ID

4852

Swiss Prot

P01303

Synonyms

PYY4

Contact

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Background

This gene encodes a neuropeptide that is widely expressed in the central nervous system and influences many physiological processes, including cortical excitability, stress response, food intake, circadian rhythms, and cardiovascular function. The neuropeptide functions through G protein-coupled receptors to inhibit adenylyl cyclase, activate mitogen-activated protein kinase (MAPK), regulate intracellular calcium levels, and activate potassium channels. A polymorphism in this gene resulting in a change of leucine 7 to proline in the signal peptide is associated with elevated cholesterol levels, higher alcohol consumption, and may be a risk factor for various metabolic and cardiovascular diseases. The protein also exhibits antimicrobial activity against bacteria and fungi. [provided by RefSeq, Oct 2014]

Product Information

Description

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

Allele-1:40bp deletion in exon1

Allele-2:40bp 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 CTCCAAGCCGGACA*****CTACTCGGCGCTGC
Mut CTCCAAGCCGGACA***Deletion***CTACTCGGCGCTGC
Allele-1: 40bp deletion in exon1
WT CTCCAAGCCGGACA*****CTACTCGGCGCTGC
Mut CTCCAAGCCGGACA***Deletion***CTACTCGGCGCTGC
Allele-2: 40bp deletion in exon1

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