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NPY Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02471

Basic Information

Catalog No.
RM02471

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

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]

Gene Information

Gene Symbol
NPY

Species
Human

Gene ID
4852

Swiss Prot
P01303

Synonyms
PYY4

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℃

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