Leader in Biomolecular Solutions for Life Science

www.abclonal.com

PER2 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50144

Basic Information

Catalog No.
RM50144

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene is a member of the Period family of genes and is expressed in a circadian pattern in the suprachiasmatic nucleus, the primary circadian pacemaker in the mammalian brain. Genes in this family encode components of the circadian rhythms of locomotor activity, metabolism, and behavior. This gene is upregulated by CLOCK/ARNTL heterodimers but then represses this upregulation in a feedback loop using PER/CRY heterodimers to interact with CLOCK/ARNTL. Polymorphisms in this gene may increase the risk of getting certain cancers and have been linked to sleep disorders.

Gene Information

Gene Symbol
PER2

Species
Human

Gene ID
8864

Swiss Prot
O15055

Synonyms
FASPS; FASPS1; PER2

Product Information

Description
PER2 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:104bp deletion in exon1
Allele-2:104bp 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

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Sequencing data

WT CCCCACCAAGGAGC**********TCGCAGGGCAGTGA
Mut CCCCACCAAGGAGC***Deletion***TCGCAGGGCAGTGA
Allele-1: 104bp deletion in exon1

WT CCCCACCAAGGAGC**********TCGCAGGGCAGTGA
Mut CCCCACCAAGGAGC***Deletion***TCGCAGGGCAGTGA
Allele-2: 104bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and PER2 knockout (KO) 293T cells, using sanger sequencing.

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.