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HPRT1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02392

Basic Information

Catalog No.
RM02392

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
HPRT1

Species
Human

Gene ID
3251

Swiss Prot
P00492

Synonyms
HGPRT; HPRT

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Background

The protein encoded by this gene is a transferase, which catalyzes conversion of hypoxanthine to inosine monophosphate and guanine to guanosine monophosphate via transfer of the 5-phosphoribosyl group from 5-phosphoribosyl 1-pyrophosphate. This enzyme plays a central role in the generation of purine nucleotides through the purine salvage pathway. Mutations in this gene result in Lesch-Nyhan syndrome or gout.[provided by RefSeq, Jun 2009]

Product Information

Description
HPRT1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:exon1 was deleted
Allele-2:exon1 was deleted
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.

Sequencing data

```
WT    CGCGCCGGCCGGCT**************AGTGCGGGCTCGGG
Mut   CGCGCCGGCCGGCT***Deletion***AGTGCGGGCTCGGG
Allele-1: exon1 was deleted

WT    CGCGCCGGCCGGCT**************AGTGCGGGCTCGGG
Mut   CGCGCCGGCCGGCT***Deletion***AGTGCGGGCTCGGG
Allele-2: exon1 was deleted
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Genome sequence analysis of PCR products from parental (WT) and HPRT1 knockout (KO) 293T cells, using sanger sequencing.