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RB1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02077

Basic Information

Catalog No.
RM02077

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Background

The protein encoded by this gene is a negative regulator of the cell cycle and was the first tumor suppressor gene found. The encoded protein also stabilizes constitutive heterochromatin to maintain the overall chromatin structure. The active, hypophosphorylated form of the protein binds transcription factor E2F1. Defects in this gene are a cause of childhood cancer retinoblastoma (RB), bladder cancer, and osteogenic sarcoma. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
RB1

Species
Human

Gene ID
5925

Swiss Prot
P06400

Synonyms
OSRC; PPP1R130; RB; p105-Rb; pRb; pp110

Product Information

Description
RB1 Knockout HeLa Cell Line is engineered from HeLa 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
Lysate is stable for 12 months when stored at -20℃. 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.

Contact

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Sequencing data

```
WT    GCTCGCTGGCTCCC**************ACGCGGGAAGGGCG
Mut   GCTCGCTGGCTCCC***Deletion***ACGCGGGAAGGGCG
Allele-1: exon1 was deleted
WT    GCTCGCTGGCTCCC**************ACGCGGGAAGGGCG
Mut   GCTCGCTGGCTCCC***Deletion***ACGCGGGAAGGGCG
Allele-2: exon1 was deleted
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Genome sequence analysis of PCR products from parental (WT) and RB1 knockout (KO) HeLa cells, using sanger sequencing.