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ORC6 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02791

Basic Information

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RM02791

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Background

The origin recognition complex (ORC) is a highly conserved six subunit protein complex essential for the initiation of the DNA replication in eukaryotic cells. Studies in yeast demonstrated that ORC binds specifically to origins of replication and serves as a platform for the assembly of additional initiation factors such as Cdc6 and Mcm proteins. The protein encoded by this gene is a subunit of the ORC complex. Gene silencing studies with small interfering RNA demonstrated that this protein plays an essential role in coordinating chromosome replication and segregation with cytokinesis.

Gene Information

Gene Symbol
ORC6

Species
Human

Gene ID
23594

Swiss Prot
Q9Y5N6

Synonyms
ORC6L; ORC6

Product Information

Description
ORC6 Knockout 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
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

```
WT   GTTGACCCGCGGCG**********ACCAGGGCTGGGC
Mut  GTTGACCCGCGGCG***Deletion***ACCAGGGCTGGGC
Allele-1:   exon1 was deleted

WT   GTTGACCCGCGGCG**********ACCAGGGCTGGGC
Mut  GTTGACCCGCGGCG***Deletion***ACCAGGGCTGGGC
Allele-2:   exon1 was deleted
```

Genome sequence analysis of PCR products from parental (WT) and ORC6 knockout (KO) HeLa cells, using sanger sequencing.