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APEX1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02369

Basic Information

Catalog No.
RM02369

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
APEX1

Species
Human

Gene ID
328

Swiss Prot
P27695

Synonyms
APE; APE1; APEN; APEX; APX; HAP1; REF1

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

Apurinic/apyrimidinic (AP) sites occur frequently in DNA molecules by spontaneous hydrolysis, by DNA damaging agents or by DNA glycosylases that remove specific abnormal bases. AP sites are pre-mutagenic lesions that can prevent normal DNA replication so the cell contains systems to identify and repair such sites. Class II AP endonucleases cleave the phosphodiester backbone 5' to the AP site. This gene encodes the major AP endonuclease in human cells. Splice variants have been found for this gene; all encode the same protein. [provided by RefSeq, Jul 2008]

Product Information

Description
APEX1 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
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    CCCAAGGGCGTTCG**************ATGTACGGTAAGTA
Mut   CCCAAGGGCGTTCG***Deletion***ATGTACGGTAAGTA
Allele-1: exon1 was deleted

WT    CCCAAGGGCGTTCG**************ATGTACGGTAAGTA
Mut   CCCAAGGGCGTTCG***Deletion***ATGTACGGTAAGTA
Allele-2: exon1 was deleted
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Genome sequence analysis of PCR products from parental (WT) and APEX1 knockout (KO) HeLa cells, using sanger sequencing.