

# 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](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Background

Apurinic/aprimidinic (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°C

### Amount

50µL, 2µg/µL.

### Storage

Lysate is stable for 12 months when stored at -20°C. 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.

## Sequencing data

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WT CCAAGGGCGTTCG\*\*\*\*\*ATGTACGGTAAGTA  
Mut CCAAGGGCGTTCG\*\*\*Deletion\*\*\*ATGTACGGTAAGTA  
Allele-1: exon1 was deleted  
WT CCAAGGGCGTTCG\*\*\*\*\*ATGTACGGTAAGTA  
Mut CCAAGGGCGTTCG\*\*\*Deletion\*\*\*ATGTACGGTAAGTA  
Allele-2: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and APEX1 knockout (KO) HeLa cells, using sanger sequencing.