

Recombinant Human APEX2 cell lysate

Cat. No. APEX2-91HCL Lot. No. (See product label)

SPECIFICATION

Species

Human

Description

Apurinic/apryrimidinic (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 a protein shown to have a weak class II AP endonuclease activity. Most of the encoded protein is located in the nucleus but some is also present in mitochondria. This protein may play an important role in both nuclear and mitochondrial base excision repair (BER).

Size

100 ul

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Applications

Western Blot;

GENE INFORMATION

Gene Name

APEX2 APEX nuclease (apurinic/apryrimidinic endonuclease) 2 [Homo sapiens]

Official Symbol

APEX2

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Synonyms	APEX2; APEX nuclease (apurinic/apyrimidinic endonuclease) 2; DNA-(apurinic or apyrimidinic site) lyase 2; APE2; APEXL2; XTH2; APEX nuclease 2; AP endonuclease 2; AP endonuclease XTH2; APEX nuclease-like 2; apurinic-apyrimidinic endonuclease 2; DNA-apurinic or apyrimidinic site lyase 2; apurinic/apyrimidinic endonuclease-like 2;
Gene ID	27301
mRNA Refseq	NM_014481
Protein Refseq	NP_055296
MIM	300773
UniProt ID	Q9UBZ4
Chromosome Location	Xp11.23
Pathway	BER complex, organism-specific biosystem; BER complex, conserved biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem;
Function	DNA binding; DNA-(apurinic or apyrimidinic site) lyase activity; endonuclease activity; exonuclease activity; hydrolase activity; lyase activity; metal ion binding; zinc ion binding;

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