

Recombinant Full Length Human APEX1 Protein, GST-tagged

Cat. No. APEX1-1523HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human APEX1 full-length ORF (AAH02338, 1 a.a. - 318 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	318 amino acids
Description	<p>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]</p>
Molecular Mass	60.72 kDa
AA Sequence	<p>MPKRGKKGAV AEDGDEL RTE PEAKKSKTAA KKNDKEAAGE GPALYEDPPD QKTSPSGKPA TLKICSWNVD GLRAWIKKKG LDWVKEEAPD ILCLQETKCS ENKLPAELQE LPGLSHQYWS APSDKEGYSG VGLLSRQCPL KVSYGIGEEE HDQEGRVIVA EFDSFVLVTA YVPNAGRGLV RLEYRQRWDE AFRKFLKGLA SRKPLVLCGD LNVAHEEIDL RNPKGKNA GFTPQERQGF GELLQAVPLA DSFRHLYPNT PYAYTFWTYM MNARSKNVGW RLDYFLLSHS LLPALCDSKI</p>

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RSKALGSDHC PITLYLAL

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

[APEX1 APEX nuclease \(multifunctional DNA repair enzyme\) 1 \[Homo sapiens \]](#)

Official Symbol

[APEX1](#)

Synonyms

APEX1; APEX nuclease (multifunctional DNA repair enzyme) 1; APEX, APEX nuclease (multifunctional DNA repair enzyme); DNA-(apurinic or apyrimidinic site) lyase; APE; APE 1; APEN; APX; HAP1; REF 1; REF1; AP lyase; protein REF-1; redox factor-1; AP endonuclease class I; apurinic-apyrimidinic endonuclease 1; apurinic/apyrimidinic (abasic) endonuclease; deoxyribonuclease (apurinic or apyrimidinic); APE1; APEX

Gene ID

[328](#)

mRNA Refseq

[NM_001244249](#)

Protein Refseq

[NP_001231178](#)

MIM

[107748](#)

UniProt ID

[P27695](#)

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