

Recombinant Human APEX1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. APEX1-4224H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	APEX1 MS Standard C13 and N15-labeled recombinant protein (NP_542379) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The APEX gene encodes the major AP endonuclease in human cells. It encodes the APEX endonuclease, a DNA repair enzyme with apurinic/apyrimidinic (AP) activity. Such AP activity sites occur frequently in DNA molecules by spontaneous hydrolysis, by DNA damaging agents or by DNA glycosylases that remove specific abnormal bases. The AP sites are the most frequent pre-mutagenic lesions that can prevent normal DNA replication. Splice variants have been found for this gene; all encode the same protein. Disruptions in the biological functions related to APEX are associated with many various malignancies and neurodegenerative diseases.
Molecular Mass	35.6 kDa
AA Sequence	MPKRGKKGAVAEDGDEL RTEPEAKKSKTAAKKNDKEAAGEGPALYEDPPDQKTSP SGKPATLKICSWNV DGLRAWIKKKGLDWVKEEAPDILCLQETKCSENKLP AELQELP GLSHQYWSAPSDKEGYSGVGLLSRQCPLKVSYGIGDEEHDQEGRVIVA EFDSFVLV TAYVPNAGRGLVRLEYRQRWDEAFRKFLKGLASRKPLVLCGDLNVAHEEIDLRNPK GNKKNAGFTPQERQGF GELLQAVPLADSFRLYPNTPYAYTFWTYMMNARSKNVG

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	WRLDYFLLSHLLPALCDSKIRSKALGSDHCPITLYLALTRTRPLEQKLISEEDLAAND ILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	APEX1 apurinic/apyrimidinic endodeoxyribonuclease 1 [Homo sapiens (human)]
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_080648

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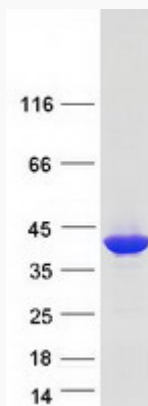
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Protein Refseq NP_542379

MIM 107748

UniProt ID P27695

SDS-PAGE



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