

Recombinant Full Length Human APEX1 Protein, C-Flag-tagged

Cat. No. APEX1-2021HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human APEX1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	35.4 kDa
AA Sequence	MPKRGKKGAVAEDGDEL RTEPEAKKSKTAAKKNDKEAAGEGPALYEDPPDQKTSP SGKPATLKICSWNVD GLRAWIKKKGLDWVKEEAPDILCLQETKCSENKLP AELQELP GLSHQYWSAPSDKEGYSGVGLLSRQCPL KVSYGIGDEEHDQEGRVIVAEFDSFVL VTAYVPNAGRGLVRLEYRQRWDEAFRKFLKGLASRKPLVLCGD LNVAAHEEIDLRNP

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KGNNKNAGFTPQERQGFGEELLQAVPLADSFRLYPNTPTYAYTFWTYMMNARSKNV
GW RLDYFLLSHSLPALCDSKIRSKALGSDHCPITLYLAL TRTRPLEQKLISEEDLAA
NDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Protein Pathways	Base excision repair
Full Length	Full L.

GENE INFORMATION

Gene Name	APEX1 apurinic/apyrimidinic endodeoxyribonuclease 1 [Homo sapiens (human)]
Official Symbol	APEX1
Synonyms	APE; APX; APE1; APEN; APEX; HAP1; REF1
Gene ID	328

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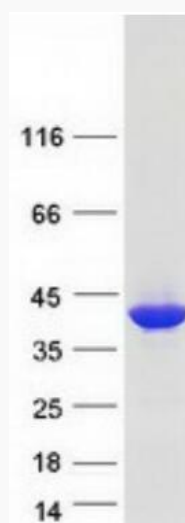
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mRNA Refseq [NM_080648.3](#)

Protein Refseq [NP_542379.1](#)

MIM [107748](#)

UniProt ID [P27695](#)



Coomassie blue staining of purified APEX1 protein.

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