

Recombinant Human APEX1 protein, GST-tagged

Cat. No. APEX1-45H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human APEX1 protein, fused with N-terminal GST tag was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-318
Form	50 mM Tris HCl, pH 8.0, 300 mM NaCl, 1 mM EDTA, 1 mM TCEP, 20% glycerol (w/v)
Molecular Mass	62.5 kDa
Storage	Store at -70centigrade. Thaw quickly and store on ice before use. Avoid repeated freezing and thawing cycles.

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;

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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](#)

Chromosome Location 14q11.2

Pathway BER complex, organism-specific biosystem; BER complex, conserved biosystem; Base Excision Repair, organism-specific biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Base-free sugar-phosphate removal via the single-nucleotide replacement pathway, organism-specific biosystem; DNA Repair, organism-specific biosystem;

Function 3-5 exonuclease activity; 3-5 exonuclease activity; DNA binding; DNA-(apurinic or apyrimidinic site) lyase activity; DNA-(apurinic or apyrimidinic site) lyase activity; RNA binding; chromatin DNA binding; damaged DNA binding; endodeoxyribonuclease activity; endonuclease activity; hydrolase activity; lyase activity; metal ion binding; oxidoreductase activity; phosphodiesterase I activity; phosphoric diester hydrolase activity; protein binding; ribonuclease H activity; site-specific endodeoxyribonuclease activity, specific for altered base; transcription coactivator activity; transcription corepressor activity; uracil DNA N-glycosylase activity;

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