

## Recombinant Human APEX1 protein, His-tagged

**Cat. No.** APEX1-46H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human APEX1 protein, fused with N-terminal His tag was expressed in E.coli.                                    |
| <b>Species</b>          | Human                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                     |
| <b>ProteinLength</b>    | 1-318                                                                                                                      |
| <b>Form</b>             | Solution of purified recombinant protein in 50 mM Tris HCl, pH 8.0, 300 mM NaCl, 1 mM EDTA, 1 mM TCEP, 20% glycerol (w/v). |
| <b>Molecular Mass</b>   | 38.9 kDa                                                                                                                   |
| <b>Storage</b>          | Store at -70centigrade. Thaw quickly and store on ice before use. Avoid repeated freezing and thawing cycles.              |

### GENE INFORMATION

|                        |                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | APEX1 APEX nuclease (multifunctional DNA repair enzyme) 1 [ Homo sapiens ]                                                                               |
| <b>Official Symbol</b> | APEX1                                                                                                                                                    |
| <b>Synonyms</b>        | APEX1; APEX nuclease (multifunctional DNA repair enzyme) 1; APEX, APEX nuclease (multifunctional DNA repair enzyme); DNA-(apurinic or apyrimidinic site) |

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|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | 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;                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene ID</b>             | 328                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>         | NM_001244249                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>      | NP_001231178                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>MIM</b>                 | 107748                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>          | P27695                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Chromosome Location</b> | 14q11.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Pathway</b>             | 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;                                                                                                                                                                                                                                |
| <b>Function</b>            | 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 |

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corepressor activity; uracil DNA N-glycosylase activity;

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