

## Recombinant Human APEX2 cell lysate

**Cat. No.** APEX2-91HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>    | 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 a protein shown to have a weak class II AP endonuclease activity. Most of the encoded protein is located in the nucleus but some is also present in mitochondria. This protein may play an important role in both nuclear and mitochondrial base excision repair (BER). |
| <b>Size</b>           | 100 ul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage Buffer</b> | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Applications</b>   | Western Blot;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### GENE INFORMATION

|                  |                                                                            |
|------------------|----------------------------------------------------------------------------|
| <b>Gene Name</b> | APEX2 APEX nuclease (apurinic/aprimidinic endonuclease) 2 [ Homo sapiens ] |
|------------------|----------------------------------------------------------------------------|

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b>     | APEX2                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>            | APEX2; APEX nuclease (apurinic/apyrimidinic endonuclease) 2; DNA-(apurinic or apyrimidinic site) lyase 2; APE2; APEXL2; XTH2; APEX nuclease 2; AP endonuclease 2; AP endonuclease XTH2; APEX nuclease-like 2; apurinic-apyrimidinic endonuclease 2; DNA-apurinic or apyrimidinic site lyase 2; apurinic/apyrimidinic endonuclease-like 2; |
| <b>Gene ID</b>             | <a href="#">27301</a>                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>         | <a href="#">NM_014481</a>                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | <a href="#">NP_055296</a>                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>                 | <a href="#">300773</a>                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | <a href="#">Q9UBZ4</a>                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | Xp11.23                                                                                                                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | BER complex, organism-specific biosystem; BER complex, conserved biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem;                                                                                                                                                                 |
| <b>Function</b>            | DNA binding; DNA-(apurinic or apyrimidinic site) lyase activity; endonuclease activity; exonuclease activity; hydrolase activity; lyase activity; metal ion binding; zinc ion binding;                                                                                                                                                    |