



Recombinant Protein Technical Manual

Recombinant Human APE1/APE Protein

RPES2965

Product Data:

Product SKU: RPES2965

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P27695

Protein Information:

Molecular Mass: 35.6 kDa

AP Molecular Mass: 40 kDa

Tag:

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 10mM HEPES, 100mM KCl, 50% Glycerol, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: DNA-(Apurinic or Apyrimidinic Site) Lyase; APEX Nuclease; APEN; Apurinic-Apyrimidinic Endonuclease 1; AP Endonuclease 1; APEREF; Redox Factor; APEX1; APE; APE1; APEX; APX; HAP1; REF1

Immunogen Information:

Sequence: Pro2-Leu318

Background:

Apurinic-Apyrimidinic Endonuclease 1 (APE1) is required for efficient DNA base excision repair. When the DNA glycosylase remove the damaged bases, APE1 cleaves the AP site to allow resynthesis and ligation to complete repair. APE1 stimulates the DNA binding activity of many transcription factors, which participate in cancer promotion and progression. APE1 regulates the redox state of multiple transcription factors, such as c-Jun, c-Fos, NF- κ B, p53. APEN is also involved in calcium-dependent down-regulation of PTH expression.