Datasheet for ABIN1096032

APEX1 Protein (AA 2-318)

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Overview

Quantity:	50 µg
Target:	APEX1
Protein Characteristics:	AA 2-318
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Apurinic-Apyrimidinic Endonuclease 1/APE
Sequence:	MGPKRGKKGA VAEDGDELRT EPEAKKSKTA AKKNDKEAAG EGPALYEDPP DQKTSPSGKP ATLKICSWNV DGLRAWIKKK GLDWVKEEAP DILCLQETKC SENKLPAELQ ELPGLSHQYW SAPSDKEGYS GVGLLSRQCP LKVSYGIGEE EHDQEGRVIV AEFDSFVLVT AYVPNAGRGL VRLEYRQRWD EAFRKFLKGL ASRKPLVLCG DLNVAHEEID LRNPKGNKKN AGFTPQERQG FGELLQAVPL ADSFRHLYPN TPYAYTFWTY MMNARSKNVG WRLDYFLLSH SLLPALCDSK IRSKALGSDH CPITLYLAL
Characteristics:	Recombinant Human Apurinic-Apyrimidinic Endonuclease 1/APE1 is produced with our E. coli expression system. The target protein is expressed with sequence (Pro2-Leu318) of Human APE1.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	APEX1
Alternative Name:	APE1 (APEX1 Products)
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-kB, p53. APEN is also involved in calcium-dependent down-regulation of PTH expression. Alternative Names: DNA-(Apurinic or Apyrimidinic Site) Lyase, APEX Nuclease, APEN, Apurinic-Apyrimidinic Endonuclease 1, AP Endonuclease 1, APE-1 REF-1, Redox Factor-1, APEX1, APE, APE1, APEX, APX, HAP1, REF1
Molecular Weight:	35.62 kDa
UniProt:	P27695
Pathways:	DNA Damage Repair, Chromatin Binding, Cell RedoxHomeostasis, Smooth Muscle Cell Migration, Positive Regulation of Response to DNA Damage Stimulus

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Supplied as a 0.2 µm filtered solution of 10 mM HEPES, 100 mM KCl, 50 % Glycerol, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months