Datasheet for ABIN7318176

APEX1 Protein

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Overview

Quantity:	50 µg
Target:	APEX1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human APE1/APE Protein
Sequence:	Pro2-Leu318
Characteristics:	Recombinant Human Apurinic-Apyrimidinic Endonuclease 1 is produced by our E.coli expression system and the target gene encoding Pro2-Leu318 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	APEX1
Alternative Name:	APE1/APE (APEX1 Products)
Background:	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.

Target Details

	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. Synonym: DNA-(Apurinic or Apyrimidinic Site) Lyase, APEX Nuclease, APEN, Apurinic-Apyrimidinic Endonuclease 1, AP Endonuclease 1, APE-1REF-1, Redox Factor-1, APEX1, APE, APE1, APEX, APX, HAP1, REF1
Molecular Weight:	35.6 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:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 10 mM HEPES, 100 mM KCl, 50 % Glycerol, pH 7.4.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.