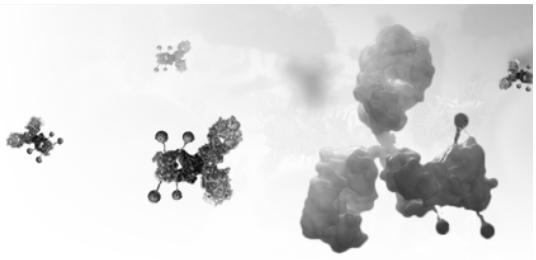

Human APEX1 blocking peptide (CDBP0424)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-APE1/APEX1 antibody
Antigen Description	Apurinic/apyrimidinic (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 the major AP endonuclease in human cells. Splice variants have been found for this gene; all encode the same protein. [provided by RefSeq, Jul 2008]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	APEX1 APEX nuclease (multifunctional DNA repair enzyme) 1 [Homo sapiens (human)]
Official Symbol	APEX1
Synonyms	APEX1; APEX nuclease (multifunctional DNA repair enzyme) 1; APE; APX; APE1; APEN;

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	APEX; HAP1; REF1; DNA-(apurinic or apyrimidinic site) lyase; AP lyase; protein REF-1; redox factor-1; AP endonuclease class I; apurinic-apyrimidinic endonuclease 1; apurinic/apyrimidinic (abasic) endonuclease; deoxyribonuclease (apurinic or apyrimidinic);
Entrez Gene ID	328
mRNA Refseq	NM_001244249.1
Protein Refseq	NP_001231178.1
UniProt ID	P27695
Chromosome Location	14q11.2
Pathway	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; Displacement of DNA glycosylase by APE1, organism-specific biosystem; HIF-2-alpha transcription factor network, organism-specifi
Function	3-5 exonuclease activity; 3-5 exonuclease activity; DNA binding; DNA-(apurinic or apyrimidinic site) lyase activity; DNA-(apurinic or apyrimidinic site) lyase activity; NF-kappaB binding; RNA-DNA hybrid ribonuclease activity; chromatin DNA binding; damage

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