

Product datasheet for TP300320

APEX2 (NM_014481) Human Recombinant Protein

Product data:

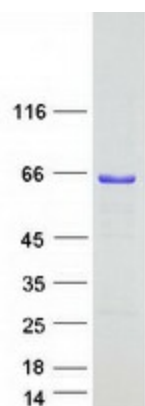
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human APEX nuclease (apurinic/aprimidinic endonuclease) 2 (APEX2), nuclear gene encoding mitochondrial protein, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200320 protein sequence Red =Cloning site Green =Tags(s)
	MLRVSWNINGIRRPLQGVANQEPSNCAAVAVGRILDELADIVCLQETKVTRDALTEPLAIVEGYNSYF SFSRNRSGYSGVATFCKDNATPVAAEEGLSGLFATQNGDVGCYGNMDEFTQEELRALDSEGRALLTQHKI RTWEGKEKTLTLINVYCPHADPGRPERLVFKMRFYRLQIRAEALLAAGSHVILGDLNHTAHRPIDHWDA VNLECFEEDPGRKWMDSLLSNLGCQSASHVGPFIDSYRCFQPKQEGAFTCWSAVTGARHLNYGSRLDYV L GDRTLVIDTFQASFLLPEVMGSDHCPVGAVLSVSSVPAKQCPPLCTRFLPEFAGTQLKILRFLVPLEQSP VLEQSTLQHNNQTRVQTCQNKAAQVRSTRPQPSQVGSRRGQKNLKSYPSPSPCPQASPDIELPSLPLMS A LMTPKTPEEKAVAKVVKGQAKTSEAKDEKELRTSFWKSVLGAPLRTPLCGGHREPCVMRTVKKPGPNLGR RFYMCARPRGPPTDPSSRCNFFLWSRPS
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	57.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_055296
Locus ID:	27301
UniProt ID:	Q9UBZ4
RefSeq Size:	2095
Cytogenetics:	Xp11.21
RefSeq ORF:	1554
Synonyms:	APE2; APEXL2; XTH2; ZGRF2
Summary:	Apurinic/apryrimidinic (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. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2012]
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair

Product images:



Coomassie blue staining of purified APEX2 protein (Cat# TP300320). The protein was produced from HEK293T cells transfected with APEX2 cDNA clone (Cat# [RC200320]) using MegaTran 2.0 (Cat# [TT210002]).