

Product datasheet for PH300320

APEX2 (NM_014481) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	APEX2 MS Standard C13 and N15-labeled recombinant protein (NP_055296)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200320
Predicted MW:	57.4 kDa
Protein Sequence:	>RC200320 protein sequence Red=Cloning site Green=Tags(s)

MLRVVSWNINGIRRPLQGVANQEPSNCAAVAVGRILDELADIVCLQETKVTRDALTEPLAIVEGYNSYF
SFSRNRSGYSGVATFCKDNATPVAAEEGLSGLFATQNGDVGCYGNMDEFTQEELRALDSEGRALLTQHKI
RTWEGKEKTLTLINVYCPHADPGRPERLVFKMRFYRLQIRAEALLAAGSHVIIILGDLNTAHRPIDHWDA
VNLECFEEDPGRKWMSLLSNLGCQSASHVGPFIIDSYRCFQPKQEGAFTCWSAVTGARHLNYGSRLDYVL
GDRTLVIDTFQASFLLEPEVMGSDHCPVGAVLSVSSVPAKQCPPLCTRFLPEFAGTQLKILRFLVPLEQSP
VLEQSTLQHNNQTRVQTCQNKAVRSTRPQPSQVGSRRGQKNLKSYPQSPSPCPQASPDIELPSLPLMSA
LMTPKTPEEKAVAKVVKQAKTSEAKDEKELRTSFWKSVLAGPLRTPLCGGHREPCVMRTVKKPGPNLGR
RFYMCARPRGPPTDPSSRCNFFLWSRPS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_055296
RefSeq Size:	2095
RefSeq ORF:	1554



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Synonyms: APE2; APEXL2; XTH2; ZGRF2

Locus ID: 27301

UniProt ID: [Q9UBZ4](#), [E5KN95](#)

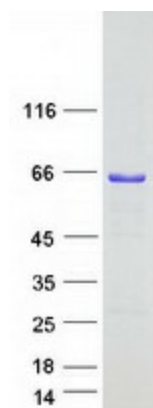
Cytogenetics: Xp11.21

Summary: Apurinic/aprimidinic (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]).