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Product datasheet for AR09821PU-N

APEX1 / REF-1 (1-318, T7-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	APEX1 / REF-1 (1-318, T7-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MASMTGGQQM GRGSMPKRGK KGAVAEDGDE LRTEPEAKKS KTAAKKNDKE AAGEGPALYE DPPDQKTSPS GKPATLKICS WNVDGLRAWI KKKGLDWVKE EAPDILCLQE TKCSENKLPA ELQELPGLSH QYWSAPSDKE GYSGVGLLSR QCPLKVSYGI GEEEHDQEGR VIVAEFDSFV LVTAYVPNAG RGLVRLEYRQ RWDEAFRKFL KGLASRKPLV LCGDLNVAHE EIDLRNPKGN KKNAGFTPQE RQGFGELLQA VPLADSFRHL YPNTPYAYTF WTYMMNARSK NVGWRLDYFL LSHSLLPALC DSKIRSKALG SDHCPITLYL AL
Tag:	T7-tag
Predicted MW:	36.9 kDa
Concentration:	lot specific
Purity:	>90%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 2 mM DTT, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human APEX1 protein, fused to T7-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001231178
Locus ID:	328
UniProt ID:	P27695, Q5TZP7
Cytogenetics:	14q11.2
Synonyms:	APE; APE1; APEN; APEX; APX; HAP1; REF1

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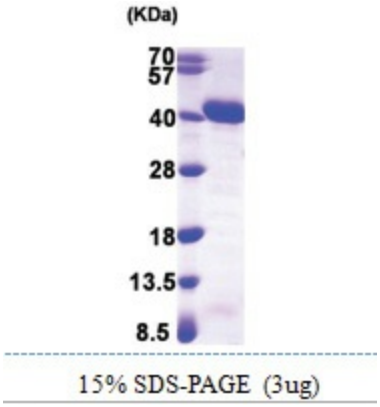
Summary: The APEX gene encodes the major AP endonuclease in human cells. It encodes the APEX endonuclease, a DNA repair enzyme with apurinic/apyrimidinic (AP) activity. Such AP activity sites occur frequently in DNA molecules by spontaneous hydrolysis, by DNA damaging agents or by DNA glycosylases that remove specific abnormal bases. The AP sites are the most frequent pre-mutagenic lesions that can prevent normal DNA replication. Splice variants have been found for this gene; all encode the same protein. Disruptions in the biological functions related to APEX are associated with many various malignancies and neurodegenerative diseases.[provided by RefSeq, Dec 2019]

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Protein Pathways: Base excision repair

Product images:



15% SDS-PAGE (3ug)