

## Product datasheet for **AR09821PU-L**

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

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	APEX1 / REF-1 (1-318, T7-tag) human recombinant protein, 0.25 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	<u>MASMTGGQOM</u> <u>GRGSMPKRGK</u> KGAVAEDGDE LRTEPEAKKS KTAACKNDKE AAGEGPALYE DPPDQKTSPS GKPATLKICS WNV DGLRAWI KKKGLDWVKE EAPDILCLQE TKCSENKLPALQELPGLSH QYWSAPSDKE GYSGVGLLSR QCPLKVSYGI GEEHDQEGR VIVAEFDSFV LVTAYVPNAG RGLVRLEYRQ RWDEAFRKF L KGLASRKPLV LCGDLNVAHE EIDL RNP KGN KKNAGFTPQE RQGF GELLQA VPLAD SFRHL YPNTPYAYTF WTYMMNARSK NVGWRLDYFL LSHLLPALC DSKIRSKALG SDHCPITLYL AL
<b>Tag:</b>	T7-tag
<b>Predicted MW:</b>	36.9 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>90%
<b>Buffer:</b>	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
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant human APEX1 protein, fused to T7-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Storage:</b>	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.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<u>NP_001231178</u>
<b>Locus ID:</b>	328
<b>UniProt ID:</b>	<u>P27695</u> , <u>Q5TZP7</u>
<b>Cytogenetics:</b>	14q11.2
<b>Synonyms:</b>	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:**