

## Summary

<b>Production Name</b>	Ref-1 Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	APEX1 APEX1; APE; APE1; APEX; APX; HAP1; REF1; DNA-(apurinic or apyrimidinic site) lyase;
<b>Alternative Names</b>	APEX nuclease; APEN; Apurinic-apyrimidinic endonuclease 1; AP endonuclease 1; APE-1; REF-1; Redox factor-1
<b>Gene ID</b>	328.0
<b>SwissProt ID</b>	P27695.The antiserum was produced against synthesized peptide derived from human APEX1. AA range:191-240

## Application

<b>Dilution Ratio</b>	WB 1:500 - 1:2000. ELISA: 1:20000..
<b>Molecular Weight</b>	34kD

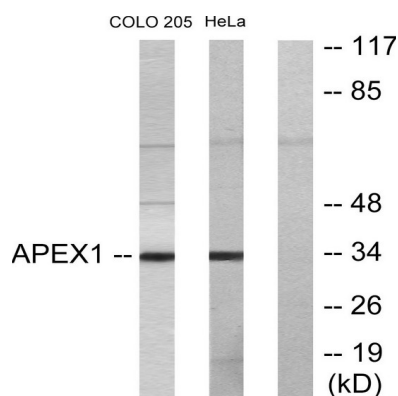
## Background

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 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], catalytic activity: The C-O-P bond 3' to the apurinic or apyrimidinic site in DNA is broken by a beta-elimination reaction, leaving a 3'-terminal unsaturated sugar and a product with a terminal 5'-phosphate. function: Repairs oxidative DNA damages in vitro. May have a role in protection against cell lethality and suppression of mutations. Removes the blocking groups from the 3'-termini of the DNA strand breaks generated by ionizing radiations and bleomycin. similarity: Belongs to the DNA repair enzymes AP/exoA family. subunit: Monomer. Component of the SET complex, which also contains SET, ANP32A, HMGB2 and NME1.

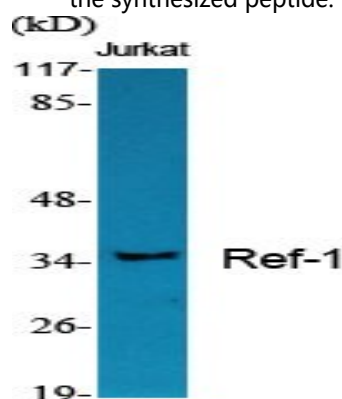
## Research Area

Base excision repair;

## Image Data



Western blot analysis of lysates from COLO205 and HeLa cells, using APEX1 Antibody. The lane on the right is blocked with the synthesized peptide.

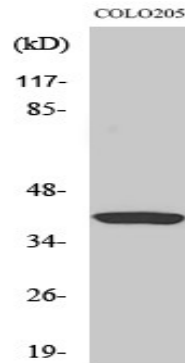


**Product Name: Ref-1 Rabbit Polyclonal Antibody**  
**Catalog #: APRab16997**



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Western Blot analysis of various cells using Ref-1 Polyclonal Antibody diluted at 1: 2000



Western Blot analysis of HeLa cells using Ref-1 Polyclonal Antibody diluted at 1: 2000

**Note**

For research use only.