



## Ref-1 rabbit pAb

Cat#: orb766212 (Manual)

For research use only. Not intended for diagnostic use.

Product Name Ref-1 rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA

Species Cross-Reactivity Human; Mouse; Rat

**Recommended dilutions** Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. Not yet

tested in other applications.

Immunogen The antiserum was produced against synthesized peptide derived from

human APEX1. AA range:191-240

Specificity Ref-1 Polyclonal Antibody detects endogenous levels of Ref-1 protein.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium

azide..

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name DNA-(apurinic or apyrimidinic site) lyase

Gene Name APEX1

Cellular localization Nucleus. Nucleus, nucleolus. Nucleus speckle. Endoplasmic reticulum.

Cytoplasm. Detected in the cytoplasm of B-cells stimulated to switch (By similarity). Colocalized with SIRT1 in the nucleus. Colocalized with YBX1 in nuclear speckles after genotoxic stress. Together with OGG1 is recruited to nuclear speckles in UVA-irradiated cells. Colocalized with nucleolin and NPM1 in the nucleolus. Its nucleolar localization is cell cycle dependent and requires active rRNA transcription. Colocalized with calreticulin in the endoplasmic reticulum. Translocation from the nucleus to the cytoplasm is stimulated in presence of nitric oxide (NO) and function in a CRM1-dependent manner, possibly as a consequence of demasking a nuclear export



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signal (amino acid position 64-80). S-nitrosylation at Cys-93 and

**Purification** The antibody was affinity-purified from rabbit antiserum by affinity-

> chromatography using epitope-specific immunogen.

**Clonality** Polyclonal

Concentration 1 mg/ml

**Observed band** 34kD

328 **Human Gene ID** 

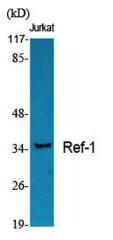
**Human Swiss-Prot Number** P27695

**Alternative Names** 

APEX1; APE; APE1; APEX; APX; HAP1; REF1; DNA-(apurinic or apyrimidinic site) lyase; APEX nuclease; APEN; Apurinic-apyrimidinic endonuclease 1; AP endonuclease 1; APE-1; REF-1; Redox factor-1

Apurinic/apyrimidinic (AP) sites occur frequently in DNA molecules by Background

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],

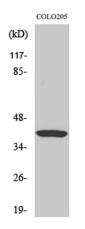


Western Blot analysis of various cells using Ref-1 Polyclonal Antibody diluted at 1:2000

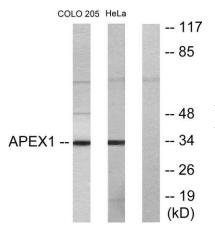




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Western Blot analysis of HeLa cells using Ref-1 Polyclonal Antibody diluted at 1:2000



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



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight.3,Secondary antibody was diluted at 1:200(room temperature, 45min).