APEX1 Antibody

PACO24972

Product Information

Size:

50ug

Reactivity:

Human, Mouse

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, IHC, ChIP

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:1000-1:5000, IHC:1:20-1:200

Protein Background:

Multifunctional protein that plays a central role in the cellular response to oxidative stress. The two major activities of APEX1 in DNA repair and redox regulation of transcriptional factors. Functions as a apurinic/apyrimidinic (AP) endodeoxyribonuclease in the DNA base excision repair (BER) pathway of DNA lesions induced by oxidative and alkylating agents. Initiates repair of AP sites in DNA by catalyzing hydrolytic incision of the phosphodiester backbone immediately adjacent to the damage, generating a single-strand break with 5'-deoxyribose phosphate and 3'-hydroxyl ends.

Gene ID:

APEX1

Uniprot

P27695

Synonyms:

DNA-(apurinic or apyrimidinic site) lyase (EC 3.1. -. -) (EC 4.2.99.18) (APEX nuclease) (APEN) (Apurinic-apyrimidinic endonuclease 1) (AP endonuclease 1) (APE-1) (REF-1) (Redox factor-1) [Cleaved into: DNA-(apurinic or apyrimidinic site) lyase, mitochondrial], APEX1, APE APE1 APEX APX HAP1 REF1

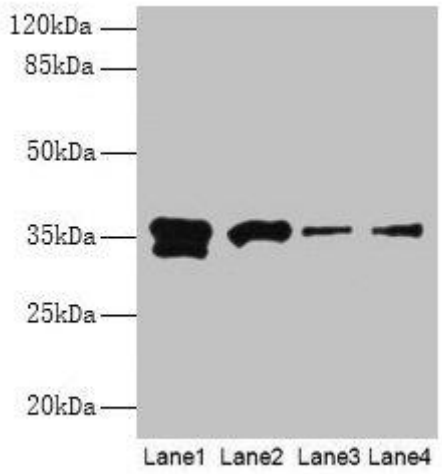
Immunogen:

Recombinant Human DNA-(apurinic or apyrimidinic site) lyase protein (32-318AA).

Storage:

Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, PH 7.4

Product Images



Western blot
All lanes: APEX1 antibody at 2µg/ml
Lane 1: Hela whole cell lysate
Lane 2: Mouse brain tissue
Lane 3: MCF-7 whole cell lysate
Lane 4: A431 whole cell lysate
Secondary
Goat polyclonal to rabbit IgG at 1/15000 dilution
Predicted band size: 36 kDa
Observed band size: 36 kDa
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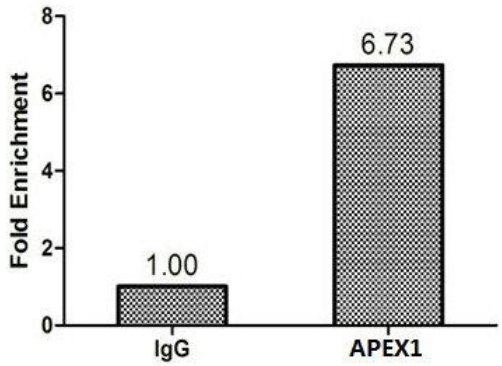
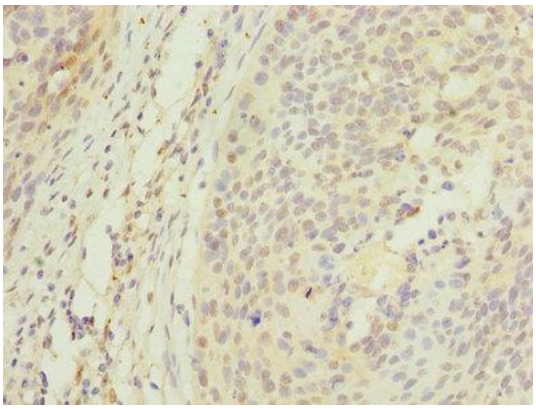


Chromatin Immunoprecipitation MCF-7 (1.1*10^6

) were cross-linked with formaldehyde, sonicated, and immunoprecipitated with 4µg anti-APEX1 or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers (PACO24972) against the MDR1 promoter.



Immunohistochemistry of paraffin-embedded human cervical cancer using PACO24972 at dilution of 1:100.