

[KO Validated] APEX1/APE1 Rabbit pAb

Catalog No.: A2587 **KO** **Validated** **1 Publications**

Basic Information

Observed MW

39kDa

Calculated MW

36kDa

Category

Primary antibody

Applications

WB, IF/ICC, IP, ELISA

Cross-Reactivity

Human

Background

The APEX gene encodes the major AP endonuclease in human cells. It encodes the APEX endonuclease, a DNA repair enzyme with apurinic/aprimidinic (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.

Recommended Dilutions

WB 1:500 - 1:2000**IF/ICC** 1:50 - 1:100**IP** 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells**ELISA** Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

Gene ID

328

Swiss Prot

P27695

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

APE; APX; APE1; APEN; APEX; HAP1; REF1; E1

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

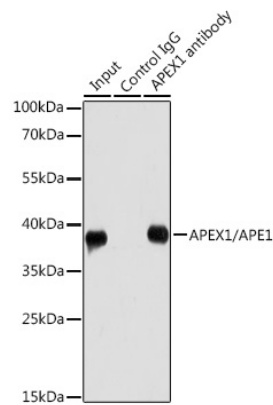
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

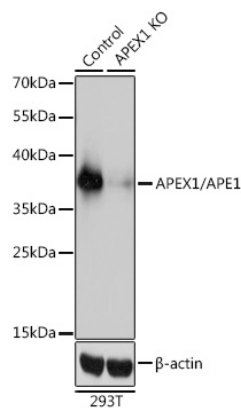
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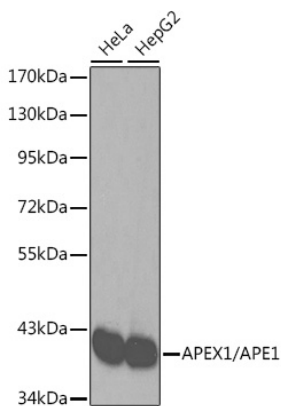
Validation Data



Immunoprecipitation analysis of 200 µg extracts of HeLa cells using 1 µg APEX1/APE1 antibody (A2587). Western blot was performed from the immunoprecipitate using APEX1/APE1 antibody (A2587) at a dilution of 1:1000.

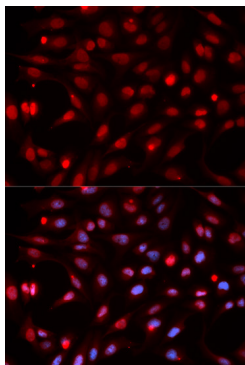


Western blot analysis of lysates from wild type (WT) and APEX1/APE1 knockout (KO) 293T cells, using [KO Validated] APEX1/APE1 Rabbit pAb (A2587) at 1:3000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

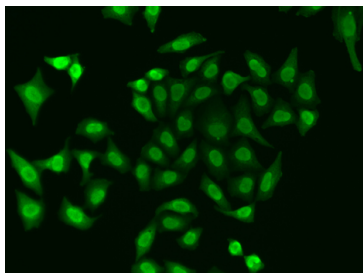


Western blot analysis of various lysates using [KO Validated] APEX1/APE1 Rabbit pAb (A2587). Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST.

Validation Data



Immunofluorescence analysis of HeLa cells using [KO Validated] APEX1/APE1 Rabbit pAb (A2587). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of A549 cells using [KO Validated] APEX1/APE1 Rabbit pAb (A2587).Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution.