

Product datasheet for TA301441

OriGene Technologies, Inc.

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APE1 (APEX1) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: Block/Neutralize, ChIP, FC, ICC/IF, IHC, IP, Simple Western, WB

Recommended Dilution: Chromatin Immunoprecipitation (ChIP): 1:10-1:500, Immunohistochemistry: 1:100,

Immunocytochemistry/ Immunofluorescence: 1:50-1:200, Immunoprecipitation: 7 ug/ml, Western Blot: 1:1000, Immunohistochemistry-Paraffin: 1:100, Immunohistochemistry-Frozen:

1:100, Simple Western: 1:12.5, Flow Cytometry, Immunohistochemistry Free-Floating,

Block/Neutralize

Reactivity: Human, Mouse, Rat

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: Affinity purified human Apurinic/Apyrimidinic Endonuclease (APE/ref-1) fusion protein.

Formulation: Tris-glycine, 150mM NaCl and 0.05% sodium azide

Purification: Affinity purified Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Gene Name: apurinic/apyrimidinic endodeoxyribonuclease 1

Database Link: NP 001632

Entrez Gene 11792 MouseEntrez Gene 79116 RatEntrez Gene 328 Human

P27695

Background: The mammalian apurinic/apyrimidinic endonuclease (APE/ref-1) is responsible for the repair

of AP sites in DNA. In addition, this enzyme has been shown to function as a redox factor facilitating the DNA binding capability of FOS, JUN, NfkB, HIF-1a as well as other transcription factors. Recently, APE has also been shown to control p53 activity through redox alteration. APE is also linked to apoptosis, associated with thioredoxin, and altered levels of APE have been found in some cancers. APE appears to form a unique link between the DNA base excision pathway, oxidative signaling, transcription regulation, cancer and cell-cycle control.



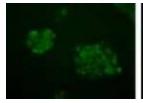
APE1 (APEX1) Rabbit Polyclonal Antibody - TA301441

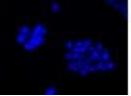
Synonyms: APE; APE1; APEN; APEX; APX; HAP1; REF1

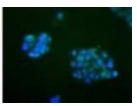
Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Protein Pathways: Base excision repair

Product images:



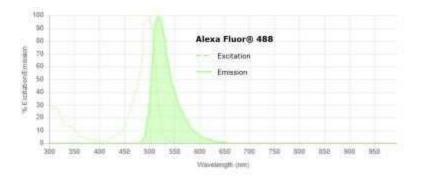




Immunocytochemistry/Immunofluorescence: APE Antibody TA301441 - Detection of APE1 (Green) in HepG2 cells using TA301441. Nuclei (Blue) are counterstained with Hoechst 33258.

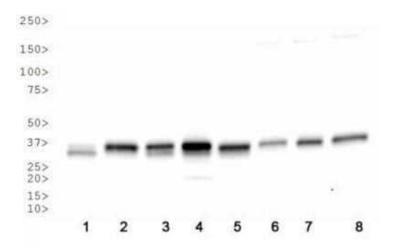


Simple Western: APE Antibody TA301441 - Lane view shows a specific band for APE1 in 0.1 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.

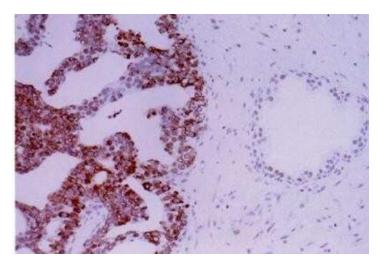


Flow Cytometry: APE Antibody TA301441 - Spectral properties of Alexa Fluor(R) 488: an excitation maximum of 490 nm and an emission maximum of 525 nm. Use the Novus Spectra Viewer to identify the optimal laser(s) and filters for Alexa Fluor(R) 488 and to determine its compatibility with other fluorophores when designing a multicolor experiment. https://www.novusbio.com/spectraviewer





Western Blot: APE Antibody TA301441 - Analysis of APE1 in cell lysates: 1. HeLa, 2. Ntera2, 3. A431, 4. HepG2, 5. MCF7, 6. NIH 3T3, 7. PC12, and 8. Cos 7.



Immunohistochemistry: APE Antibody TA301441 - Immunohistochemical staining of APE-ref-1 in prostate cancer.