

Rabbit APEX nuclease (Multifunctional DNA repair enzyme) 1 Polyclonal Antibody | anti-APEX1 antibody

Anti-APE1 Antibody

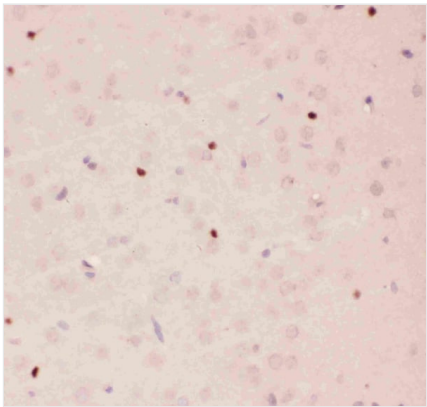
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA46055	Rabbit	Human, Mouse, Rat. No cross reactivity with other proteins.	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

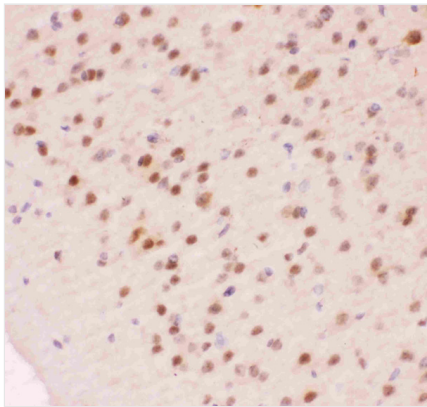
APEX nuclease (Multifunctional DNA repair enzyme) 1; Polyclonal Antibody; Anti-APE1 Antibody; AP endonuclease 1 antibody; AP endonuclease class I antibody; AP lyase antibody; APE 1 antibody; APE antibody; APE-1 antibody; APEN antibody; APEX 1 antibody; APEX antibody; APEX nuclease (multifunctional DNA repair enzyme) 1 antibody; Apex nuclease 1 antibody; Apex nuclease antibody; APEX1 antibody; APEX1_HUMAN antibody; Apurinic endonuclease antibody; Apurinic-apyrimidinic endonuclease 1 antibody; Apurinic/apyrimidinic (abasic) endonuclease antibody; Apurinic/apyrimidinic endonuclease 1 antibody; Apurinic/apyrimidinic exonuclease antibody; APX antibody; BAP1 antibody; Deoxyribonuclease (apurinic or apyrimidinic) antibody; DNA (apurinic or apyrimidinic site) lyase antibody; DNA-(apurinic or apyrimidinic site) lyase; mitochondrial antibody; EC 4.2.99.18 antibody; HAP 1 antibody; HAP1 antibody; Human Apurinic endonuclease 1 antibody; MGC139790 antibody; Multifunctional DNA repair enzyme antibody; Redox factor 1 antibody; Redox factor-1 antibody; REF 1 antibody; REF 1 protein antibody; REF-1 antibody; REF1 antibody; REF1 protein antibody; APEX nuclease (multifunctional DNA repair enzyme) 1; anti-APEX1 antibody

PRODUCT SPECIFICATIONS

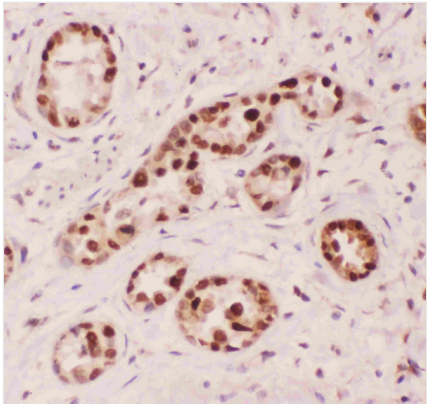
Host	Rabbit
Reactivity	Human, Mouse, Rat. No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	318
Applicable Applications for anti-APEX1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E.coli-derived human APE1 recombinant protein (Position: P2-L318). Human APE1 shares 94% and 93% amino acid (aa) sequences identity with mouse and rat APE1, respectively.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



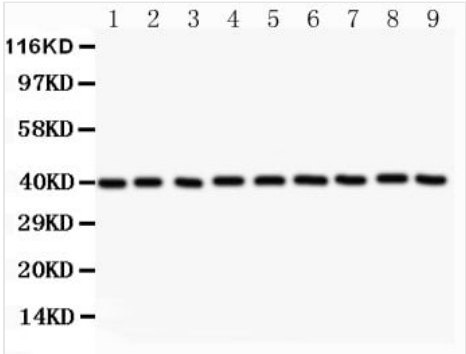
IHC (Immunohistochemistry)
Anti-APE1 Picoband antibody, AAA46055-5.JPGIHC(P): Rat Brain Tissue



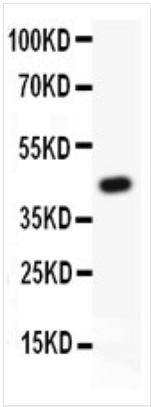
IHC (Immunohistochemistry)
Anti-APE1 Picoband antibody, AAA46055-4.JPGIHC(P): Mouse Brain Tissue



IHC (Immunohistochemistry)
Anti-APE1 Picoband antibody, AAA46055-3.JPGIHC(P): Human Lung Cancer Tissue



Application Data
Anti-APE1 Picoband antibody, AAA46055-2.jpgAll lanes: Anti APEX1 (AAA46055) at 0.5ug/mlLane 1: NRK Whole Cell Lysate at 40ugLane 2: HELA Whole Cell Lysate at 40ugLane 3: PC-12 Whole Cell Lysate at 40ugLane 4: RH35 Whole Cell Lysate at 40ugLane 5: HEPA Whole Cell Lysate at 40ugLane 6: MCF Whole Cell Lysate at 40ugLane 7: A549 Whole Cell Lysate at 40ugLane 8: Human Placenta Tissue Lysate at 50ugLane 9: A431 Whole Cell Lysate at 40ugPredicted bind size: 39KDObserved bind size: 39KD



Application Data
Anti-APE1 Picoband antibody, AAA46055-1.jpgAll lanes: Anti APEX1 (AAA46055) at 0.5ug/mlWB: Recombinant Human APEX1 Protein 0.5ngPredicted bind size: 45KDObserved bind size: 45KD

ADDITIONAL INFORMATION

Related Product Information for anti-APEX1 antibody	Description: Rabbit IgG polyclonal antibody for APEX nuclease (Multifunctional DNA repair enzyme) 1(APEX1) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: APEX1, also called apurinic endonuclease (APE), is a DNA repair enzyme having apurinic/apyrimidinic (AP) endonuclease, 3-prime, 5-prime-exonuclease, DNA 3-prime repair diesterase, and DNA 3-prime-phosphatase activities. The human APEX1 gene consists of 5 exons spanning 2.64 kb and exists as a single copy in the haploid genome. Using in situ hybridization, the APEX1 gene is mapped to 14q11.2-q12. The predicted APEX1 protein, which contained probable nuclear transport signals, was identified as a member of a family of DNA repair enzymes found in lower organisms. The abundance of the large form of APEX1 was increased in leiomyoma extracts relative to myometrial tissue extracts, and the large form was dominant in cell lines derived from leiomyosarcomas. The exonuclease activity of nuclear APEX1 can remove the anti-HIV nucleoside analogs AZT and D4T from the 3-prime terminus of a nick more efficiently than can cytosolic exonucleases.
---	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	346644849
NCBI GeneID	328
NCBI Accession #	NP_001231178.1
NCBI GenBank Nucleotide #	NM_001244249.1
UniProt Accession #	P27695; Q969L5; Q99775
Molecular Weight	35,555 Da
NCBI Official Full Name	DNA-(apurinic or apyrimidinic site) lyase
NCBI Official Synonym Full Names	APEX nuclease (multifunctional DNA repair enzyme) 1
NCBI Official Symbol	APEX1
NCBI Official Synonym Symbols	APE; APX; APE1; APEN; APEX; HAP1; REF1
NCBI Protein Information	DNA-(apurinic or apyrimidinic site) lyase; DNA-(apurinic or apyrimidinic site) lyase; AP lyase; protein REF-1; redox factor-1; AP endonuclease class I; apurinic-apyrimidinic endonuclease 1; apurinic/apyrimidinic (abasic) endonuclease; deoxyribonuclease (apurinic or apyrimidinic)
UniProt Protein Name	DNA-(apurinic or apyrimidinic site) lyase
UniProt Gene Name	APEX1
UniProt Synonym Gene Names	APE; APE1; APEX; APX; HAP1; REF1; APEN; AP endonuclease 1; APE-1
UniProt Entry Name	APEX1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/apex-nuclease-multifunctional-dna-repair-enzyme-1-antibody-immunohistochemistry-western-blot-elisa/46055>