

Rabbit anti-Mouse APE1/APEX1 Polyclonal Antibody | anti-APEX1 antibody

Anti-APE1/APEX1 Antibody, Rabbit Polyclonal

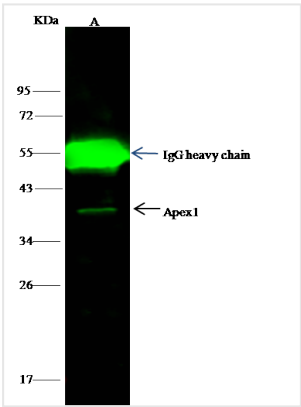
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254847	Rabbit	Mouse	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

APE1/APEX1; Polyclonal Antibody; Anti-APE1/APEX1 Antibody; Rabbit Polyclonal; APEX1/APE1/Ref-1 Antibody; Rabbit PAb; Antigen Affinity Purified; APEX nuclease (multifunctional DNA repair enzyme) 1; Anti-APE Antibody; Anti-Apex Antibody; Anti-HAP1 Antibody; Anti-Ref-1 Antibody; anti-APEX1 antibody

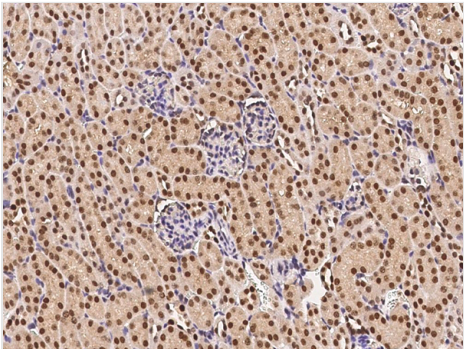
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse APEX1/APE1/Ref-1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-APEX1 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the N-terminus of the Mouse APEX1/APE1/Ref-1
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Mouse APEX1/APE1/Ref-1, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



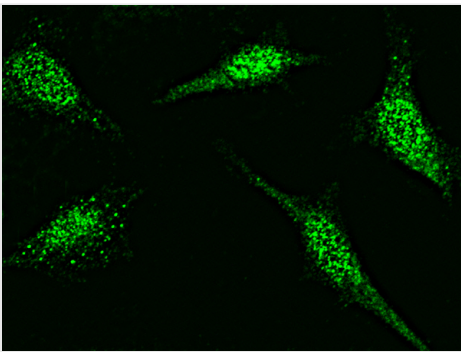
IP (Immunoprecipitation)

Apex1 was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate, 4 μ L anti-Apex1 rabbit polyclonal antibody and 15 μ L of 50 % Protein G agarose. Primary antibody: Anti-Apex1 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: DyLight 800-labeled anti-rabbit IgG (H+L), at 1:5000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 35 kDa. Observed band size: 39 kDa.



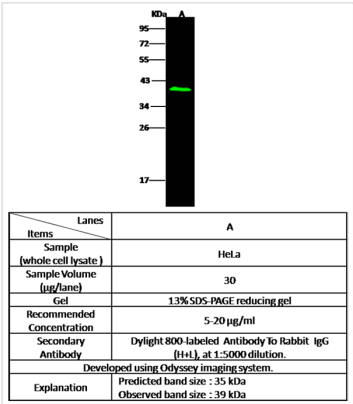
IHC (Immunohistochemistry)

Immunohistochemical staining of mouse Apex1 in mouse kidney with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin-embedded sections.



IF (Immunofluorescence)

Immunofluorescence staining of Apex1 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-MOUSE Apex1 polyclonal antibody (dilution ratio: 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to cytoplasm and nucleus.



WB (Western Blot)

Anti-APEX1 rabbit polyclonal antibody at 1:500 dilution. Lane A: HeLa Whole Cell Lysate. Lysates/proteins at 30 μ g per lane. Secondary: Goat Anti-Rabbit IgG H&L (DyLight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 35 kDa. Observed band size: 39 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-APEX1 antibody

The enzyme is known to be a redox factor (Ref-1) stimulating DNA binding activity of AP-1 binding proteins such as Fos and Jun as well as a multifunctional DNA repair enzyme having 5' AP endonuclease, DNA 3' repair diesterase, 3'-5' exonuclease and DNA 3'-phosphatase activities. Although Apex mRNA was expressed ubiquitously, the levels varied significantly, suggesting organ- or tissue-specific expression of the Apex gene. The highest level was observed in the testis, relatively high levels in the thymus, spleen, kidney and brain, and the lowest level in the liver in rats. However, the present results suggested that APEX/Ref-1 gene product can interact with AP-1 binding proteins in brain, especially in the hippocampal formation, to regulate some brain functions by redox-activation.

References

Ono Y, et al. (1995) Developmental expression of APEX nuclease, a multifunctional DNA repair enzyme, in mouse brains. Brain Res Dev Brain Res. 86 (1-2): 1-6. Tan Y, et al. (1996) cDNA cloning of rat major AP endonuclease (APEX nuclease) and analyses of its mRNA expression in rat tissues. Acta Med Okayama. 50 (1): 53-60. Yao M, et al. (1999) Genomic structure of the rat major AP endonuclease gene (Apex) with an adjacent putative O-sialoglycoprotease gene (Prsmg1/Gcpl1) and a processed Apex pseudogene (Apexp1). Acta Med Okayama. 53 (6): 245-52.

NCBI AND UNIPROT INFORMATION

NCBI GI # 6753086

NCBI GeneID	11792
NCBI Accession #	NP_033817.1
NCBI GenBank Nucleotide #	NM_009687.2
UniProt Accession #	P28352
Molecular Weight	35,490 Da
NCBI Official Full Name	DNA-(apurinic or apyrimidinic site) lyase
NCBI Official Synonym Full Names	apurinic/apyrimidinic endonuclease 1
NCBI Official Symbol	Apex1
NCBI Official Synonym Symbols	APE; Apex; HAP1; Ref-1
NCBI Protein Information	DNA-(apurinic or apyrimidinic site) lyase
UniProt Protein Name	DNA-(apurinic or apyrimidinic site) lyase
UniProt Gene Name	Apex1
UniProt Synonym Gene Names	Ape; Apex; Ref1; APEN; AP endonuclease 1

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/apex1-apex1-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/254847>