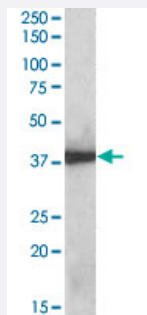


APEX1 polyclonal antibody

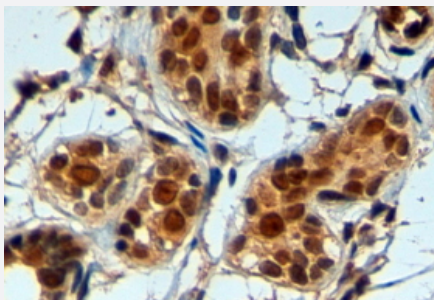
Catalog # PAB6125 Size 100 ug

Applications



Western Blot (Cell lysate)

APEX1 polyclonal antibody (Cat # PAB6125) staining (0.1 ug/mL) of A-431 lysate (RIPA buffer, 30 ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

APEX1 polyclonal antibody (Cat # PAB6125) (4 ug/mL) staining of paraffin embedded human breast. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of APEX1.
Immunogen	A synthetic peptide corresponding to N-terminus of human APEX1.
Sequence	PKRGKKGAVAEDGD-C
Host	Goat
Theoretical MW (kDa)	35.6
Reactivity	Human

Specificity	This antibody is expected to recognize NP_001632.2, NP_542379.1 and NP_542380.1 are variants that represent the same protein.
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:16000) Western Blot (0.1-0.3 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (4-6 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

APEX1 polyclonal antibody (Cat # PAB6125) staining (0.1 ug/mL) of A-431 lysate (RIPA buffer, 30 ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — APEX1

Entrez GeneID	328
Protein Accession#	NP_001632.2;NP_542379.1;NP_542380.1
Gene Name	APEX1
Gene Alias	APE, APE-1, APE1, APEN, APEX, APX, HAP1, REF-1, REF1
Gene Description	APEX nuclease (multifunctional DNA repair enzyme) 1

Omim ID [107748](#)

Gene Ontology [Hyperlink](#)

Gene Summary Apurinic/aprimidinic (AP) sites occur frequently in DNA molecules by spontaneous hydrolysis, by DNA damaging agents or by DNA glycosylases that remove specific abnormal bases. AP sites are pre-mutagenic lesions that can prevent normal DNA replication so the cell contains systems to identify and repair such sites. Class II AP endonucleases cleave the phosphodiester backbone 5' to the AP site. This gene encodes the major AP endonuclease in human cells. Splice variants have been found for this gene; all encode the same protein. [provided by RefSeq]

Other Designations AP endonuclease class II|AP lyase|APEX nuclease|DNA-(apurinic or apyrimidinic site) lyase|OTT HUMP00000163988|apurinic/apyrimidinic (abasic) endonuclease|apurinic/apyrimidinic exonuclease|deoxyribonuclease (apurinic or apyrimidinic)|multifunctional DNA repair

Publication Reference

- [Cloning and expression of APE, the cDNA encoding the major human apurinic endonuclease: definition of a family of DNA repair enzymes.](#)

Demple B, Herman T, Chen DS.

PNAS 1991 Dec; 88(24):11450.

Application: AFC, IF, WB-Ce, WB-Re, Human, HeLa, MG63 cells, Recombinant proteins

Pathway

- [Base excision repair](#)

Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Adenomatous Polyposis Coli](#)
- [Adenomyoma](#)
- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Anoxia](#)

- [Arsenic Poisoning](#)
- [Ataxia telangiectasia](#)
- [Biliary Tract Neoplasms](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cerebrovascular Accident](#)
- [Chromosome Aberrations](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [DNA Damage](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Fibrosis](#)
- [Gallstones](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Graft vs Host Disease](#)

- [Graves Disease](#)
- [Head and Neck Neoplasms](#)
- [Helicobacter Infections](#)
- [Kidney Failure](#)
- [Laryngeal Neoplasms](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Micronuclei](#)
- [Mouth Abnormalities](#)
- [Mouth Neoplasms](#)
- [Multiple Sclerosis](#)
- [Myocardial Infarction](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neuroma](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Papillomavirus Infections](#)

- [Pharyngeal Neoplasms](#)
- [Precancerous Conditions](#)
- [Pre-Eclampsia](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Radiation Injuries](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Spinal Dysraphism](#)
- [Stomach Neoplasms](#)
- [Stroke](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Werner syndrome](#)