

Datasheet for ABIN3015421
anti-APEX1 antibody (AA 1-318)



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4 Images

1 Publication

Overview

Quantity:	100 µL
Target:	APEX1
Binding Specificity:	AA 1-318
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This APEX1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-318 of human APEX1/APE1 (NP_542380.1).
Sequence:	MPKRGKKGAV AEDGDEL RTE PEAKKSKTAA KKNDKEAAGE GPALYEDPPD QKTSPSGKPA TLKICSWNVD GLRAWIKKKG LDWVKEEAPD ILCLQETKCS ENKLPALQE LPGLSHQYWS APSDKEGYSG VGLLSRQCPL KVSYGIGDEE HDQEGRVIVA EFDSFVLVTA YVPNAGRGLV RLEYRQRWDE AFRKFLKGLA SRKPLVLCGD LNVAHEEIDL RNPKGKKNNA GFTPQERQGF GELLQAVPLA DSFRHLYPNT PYAYTFWTYM MNARSKNVGW RLDYFLLSHS LLPALCDSKI RSKALGSDHC PITLYLAL
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Polyclonal Antibodies

Product Details

Purification: Affinity purification

Target Details

Target: APEX1

Alternative Name: APEX1 ([APEX1 Products](#))

Background: 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.,APEX1,APE,APE1,APEN,APEX,APX,HAP1,REF1,Epigenetics & Nuclear Signaling,Transcription Factors,DNA Damage & Repair,Cardiovascular,Heart,Cardiogenesis,APEX1

Molecular Weight: 35 kDa

Gene ID: 328

UniProt: [P27695](#)

Pathways: [DNA Damage Repair](#), [Chromatin Binding](#), [Cell RedoxHomeostasis](#), [Smooth Muscle Cell Migration](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:100

Restrictions: For Research Use only

Handling

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

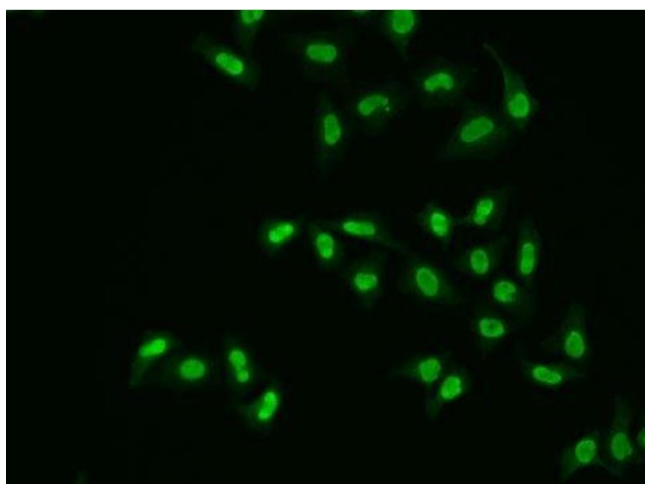
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

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

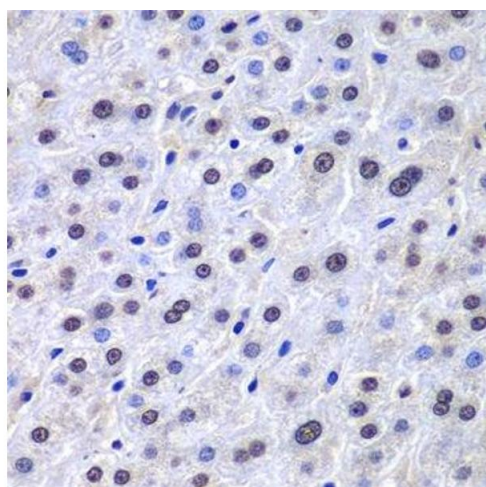
Product cited in: Xu, Zhang, Zhang, Meng, Zhang, Jiang, Xu, Van Meter, Seluanov, Gorbunova, Mao: "SIRT6 rescues the age related decline in base excision repair in a PARP1-dependent manner." in: **Cell cycle (Georgetown, Tex.)**, Vol. 14, Issue 2, pp. 269-76, (2015) ([PubMed](#)).

Images



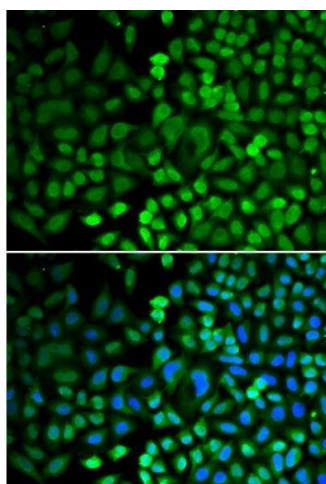
Immunofluorescence

Image 1. Immunofluorescence analysis of A549 cells using APEX1 antibody.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry of paraffin-embedded human liver injury using APEX1 antibody.



Immunofluorescence

Image 3. Immunofluorescence analysis of HeLa cells using APEX1 antibody.

Images

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3015421.