

Datasheet for ABIN2779778
anti-APEX1 antibody (N-Term)



[Go to Product page](#)

2 Images

Overview

Quantity:	100 µL
Target:	APEX1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Rabbit, Guinea Pig, Goat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This APEX1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human APEX1
Sequence:	KGLDWVKEEA PDILCLQETK CSENKLP AEL QELPGLSHQY WSAPSDKEGY
Predicted Reactivity:	Cow: 92%, Dog: 92%, Goat: 83%, Guinea Pig: 85%, Horse: 100%, Human: 100%, Mouse: 92%, Rabbit: 92%, Rat: 92%
Characteristics:	This is a rabbit polyclonal antibody against APEX1. It was validated on Western Blot and immunohistochemistry.
Purification:	Protein A purified

Target Details

Target:	APEX1
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Target Details

Alternative Name:	APEX1 (APEX1 Products)
Background:	Apurinic/apyrimidinic (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. Alias Symbols: APE, APX, APE1, APEN, APEX, HAP1, REF1 Protein Interaction Partner: GADD45A, UBC, RPA3, RPA2, RPA1, rev, CCDC124, RIC8A, PABPC1, TWF2, XPOT, HNRNPUL1, ARIH2, PAPSS2, NAE1, PSMG1, TXNRD1, TXN, TCEB1, LGALS1, HNRNPK, CAPNS1, SRPK2, SRPK1, MUTYH, HMGA1, HMGA2, GZMK, GZMA, YBX1, EP300, ASCL2, STAT3, SNRPD1, SFPQ, APP, UBE2I, Protein Size: 318
Molecular Weight:	35 kDa
Gene ID:	328
NCBI Accession:	NM_080648 , NP_542379
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:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 318 AA
Restrictions:	For Research Use only

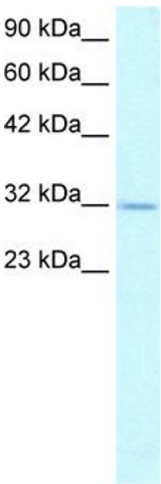
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

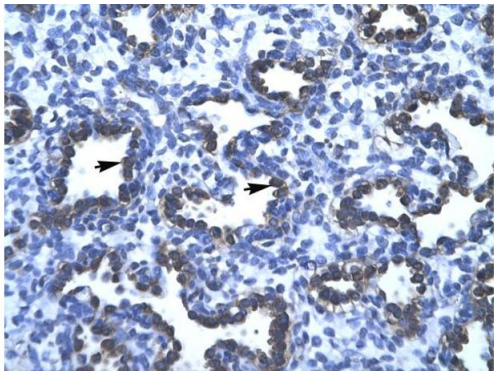
	should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-APEX1 Antibody Titration: 1.25ug/ml Positive Control: HepG2 cell lysate APEX1 is supported by BioGPS gene expression data to be expressed in HepG2



Immunohistochemistry

Image 2. Human Lung

Rabbit Anti-APEX1 Antibody
Catalog Number: ARP32651
Lot Number: QC2459
Paraffin Embedded Tissue: Human Lung
Cells with Positive label: Alveolar cells (Indicated with Arrows)
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X