Datasheet for ABIN2787519

anti-APEX1 antibody (Middle Region)

2 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	APEX1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Rabbit, Guinea Pig, Goat, Zebrafish (Danio rerio)
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 middle region of human APEX1
Sequence:	HEEIDLRNPK GNKKNAGFTP QERQGFGELL QAVPLADSFR HLYPNTPYAY
Predicted Reactivity:	Cow: 100%, Dog: 100%, Goat: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against APEX1. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	APEX1
Alternative Name:	APEX1 (APEX1 Products)

Target Details

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. Splice variants have been found for this gene, all encode the same protein. Alias Symbols: APE, APE1, APEN, APEX, APX, HAP1, REF-1, 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_001641, NP_001632
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

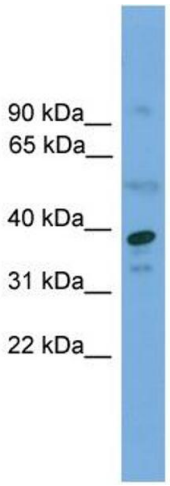
Handling

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

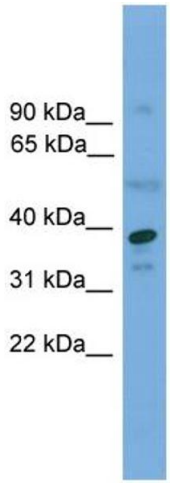


Western Blotting

Image 1. WB Suggested Anti-APEX1 Antibody Titration: 0.2-1 ug/ml

ELISA Titer: 1:1562500

Positive Control: 293T cell lysate



Western Blotting

Image 2. WB Suggested Anti-APEX1

Antibody Titration: 0.2-1 µg/mL ELISA Titer: 1:1562500

Positive Control:.93T cell lysate

APEX1 is supported by BioGPS gene expression data to be expressed in HEK293T