

Datasheet for ABIN4906178
anti-APEX1 antibody



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2 Images

Overview

Quantity:	100 µL
Target:	APEX1
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This APEX1 antibody is generated from a mouse immunized with a recombinant protein of human APEX1.
Clone:	15C2
Isotype:	IgG1
Cross-Reactivity:	Human, Rat
Purification:	Purified by Protein G.

Target Details

Target:	APEX1
Alternative Name:	APEX1 (APEX1 Products)
Background:	Synonyms: APE, APX, APE1, APEN, APEX, HAP1, REF1, DNA-(apurinic or apyrimidinic site) lyase, APEX nuclease, Apurinic-apyrimidinic endonuclease 1, AP endonuclease 1, APE-1, REF-1, Redox factor-1, APEX1

Target Details

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. [provided by RefSeq, Jul 2008]

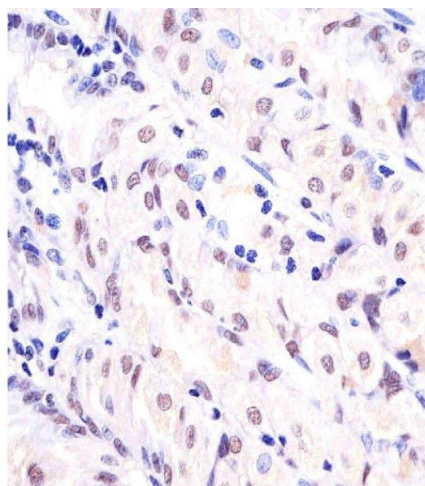
Gene ID:	328
UniProt:	P27695
Pathways:	DNA Damage Repair , Chromatin Binding , Cell RedoxHomeostasis , Smooth Muscle Cell Migration , Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	WB 1:300-5000 IHC-P 1:200-400
Restrictions:	For Research Use only

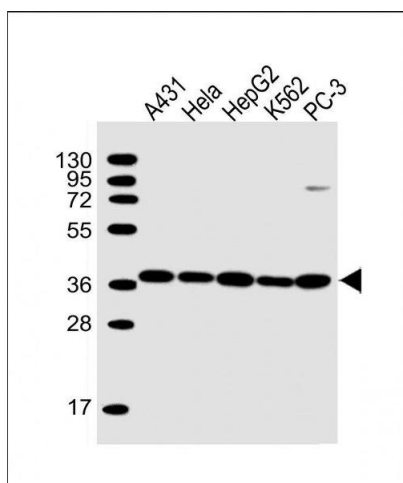
Handling

Format:	Liquid
Concentration:	0.5 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Paraformaldehyde-fixed, paraffin embedded human stomach tissue, Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes, Blocking buffer (3% BSA) at room temperature for 30min, Antibody incubation with APEX1 (1518CT337.123.86.269.232) Monoclonal Antibody (bsm-51448M) at 1:25 for 1 hour at 37°C, followed by a conjugated secondary antibody for 20 minutes and DAB staining.



Western Blotting

Image 2. Lane 1: A431, Lane 2: HeLa, Lane 3: HepG2, Lane 4: K562, Lane 5: PC-3 cell lysate at 20 µg per lane, probed with bsm-51448M APEX1 (1518CT337.123.86.269.232) Monoclonal Antibody at 1:2000 dilution and 4°C *overnight incubation*, followed by secondary antibody incubation for 60min at room temperature.