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Datasheet for ABIN2857038 anti-APEX1 antibody (N-Term)

3 Images



Overview

Quantity:	100 µL
Target:	APEX1
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This APEX1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the N-terminus region of human APE1. The exact sequence is proprietary.
lsotype:	lgG
Cross-Reactivity:	Pig (Porcine), Rhesus Monkey, Chimpanzee
Cross-Reactivity (Details):	Pig (93 %), Rhesus Monkey (100 %), Chimpanzee (100 %)
Characteristics:	Rabbit Polyclonal antibody to APE1 (APEX nuclease (multifunctional DNA repair enzyme) 1) APE1 antibody [N1], N-term
Purification:	Affinity purified by Protein A.

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Target Details

Target:	APEX1
Alternative Name:	APE1 (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. Splice variants have been found for this gene, all encode the same protein.
	Cellular Localization: Nucleus
Molecular Weight:	36 kDa
Gene ID:	328
Pathways:	DNA Damage Repair, Chromatin Binding, Cell RedoxHomeostasis, Smooth Muscle Cell Migration, Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	Suggested dilution Reference ICC/IF 1:100-1:1000* IHC (Formalin-fixed paraffin-embedded
	sections) 1:100-1:1000* Western blot 1:500-1:3000* Not tested in other applications. *Optimal
	dilutions/concentrations should be determined by the researcher.Suggested
	dilutionReferenceICC/IF1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections)1:100-
	1:1000* Western blot1:500-1:3000*
Comment:	Positive Control: A549
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	5.04 mg/mL
Buffer:	0.1M Tris, 0.1M Glycine, 10 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Handling

Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw
	cycles.

Images





Western Blotting

Image 1. WB Image Sample (30 ug of whole cell lysate) A: A549 10% SDS PAGE antibody diluted at 1:3000

Immunofluorescence

Image 2. ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed A431, using APE1, antibody at 1:200 dilution.

Immunohistochemistry

Image 3. IHC-P Image APE1 antibody [N1], N-term detects APEX1 protein at nucleus on Saos2 xenograft by immunohistochemical analysis. Sample: Paraffin-embedded Saos2 xenograft. APE1 antibody [N1], N-term , dilution: 1:500.

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