

Product Datasheet

APE Antibody NB100-897

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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Updated 10/23/2024 v.20.1

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NB100-897

APE Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

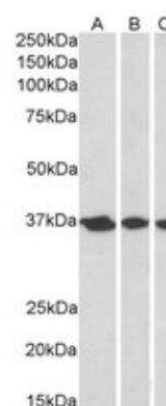
Product Description	
Host	Goat
Gene ID	328
Gene Symbol	APEX1
Species	Human
Reactivity Notes	Use in Human reported in scientific literature (PMID:33753167).
Specificity/Sensitivity	Reported variants represent identical protein (NP_001632.2; NP_542379.1; NP_542380.1).
Immunogen	Peptide with sequence PKRGKKGAVAEDGD-C corresponding to N-Terminus according to NP_001632.2.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.1 - 0.3 ug/ml, Immunohistochemistry 4 - 6 ug/ml, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 4 - 6 ug/ml, Peptide ELISA Detection limit 1:16000
Application Notes	WB: Approx. 37 kDa band observed in nuclear lysates of A431, HeLa and MCF7 (calculated MW of 35.6 kDa band according to NP_001632.2, NP_542379.1 and NP_542380.1). Use in ICC/IF reported in scientific literature (PMID: 27560983).

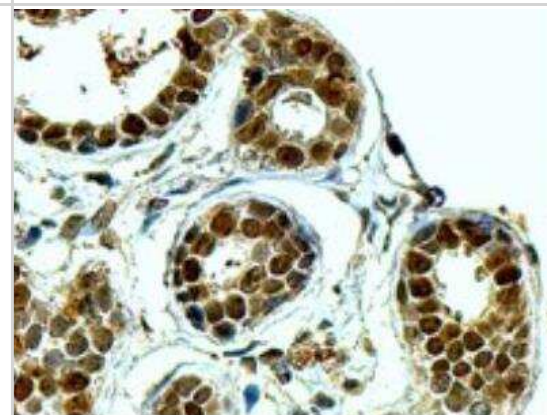


Images

Western Blot: APE Antibody [NB100-897] - Staining of A431 (A), HeLa (B) and MCF7 (C) nuclear lysates (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Immunohistochemistry-Paraffin: APE Antibody [NB100-897] - Staining of paraffin embedded Human Breast. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.



Publications

Mangiapane G, Parolini I, Conte K et al. Enzymatically active apurinic/apyrimidinic endodeoxyribonuclease 1 is released by mammalian cells through exosomes The Journal of biological chemistry 2021-03-19 [PMID: 33753167] (WB, Human)

Pascut D, Sukowati CHC, Antoniali G et al. Serum AP-endonuclease 1 (sAPE1) as novel biomarker for hepatocellular carcinoma Oncotarget 2019-01-08 [PMID: 30719231] (WB, Human)

Bhakat KK, Sengupta S, Adeniyi VF et al. Regulation of limited N-terminal proteolysis of APE1 in tumor via acetylation and its role in cell proliferation. Oncotarget 2016-04-19 [PMID: 26981776]

Sandomenico A, Foca A, Sanguigno L et al. Monoclonal antibodies against pools of mono- and polyacetylated peptides selectively recognize acetylated lysines within the context of the original antigen. MAbs 2016-08-25 [PMID: 27560983] (ICC/IF)

Demple B, Herman T, Chen DS. Cloning and expression of APE, the cDNA encoding the major human apurinic endonuclease: definition of a family of DNA repair enzymes. Proc Natl Acad Sci U S A 1991-12-15 [PMID: 1722334]

Allen D, Herbert DC, McMahan CA et al. Mutagenesis is elevated in male germ cells obtained from DNA polymerase-beta heterozygous mice. Biol Reprod 2008-11-01 [PMID: 18650495]



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Products Related to NB100-897

NBL1-07597	APE Overexpression Lysate
NBP1-49581	APE1 Redox Inhibitor
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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