

Product Datasheet

APE Antibody (13B8E5C2) - Azide and BSA Free NBP2-80578

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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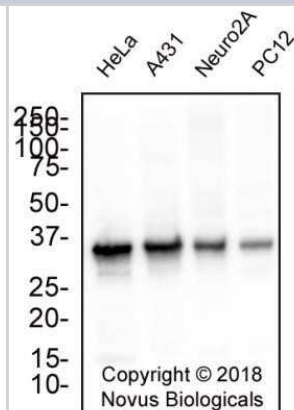
NBP2-80578

APE Antibody (13B8E5C2) - Azide and BSA Free

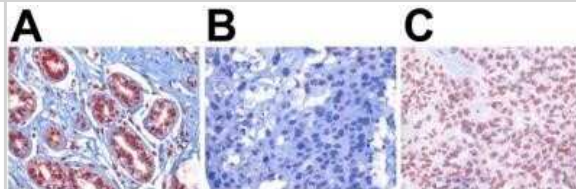
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	13B8E5C2
Preservative	No Preservative
Isotype	IgG2b
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	37 kDa
Product Description	
Host	Mouse
Gene ID	328
Gene Symbol	APEX1
Species	Human, Mouse, Rat, Primate
Immunogen	Purified human APE1 [Uniprot: P27695]
Product Application Details	
Applications	Western Blot, Simple Western, Gel Super Shift Assays, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Proximity Ligation Assay, Chromatin Immunoprecipitation (ChIP), Immunocytochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 1:100 - 1:2000, Simple Western 1:25, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 1:50 - 1:200, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:100, Immunohistochemistry-Frozen 1:10 - 1:500, Immunoblotting reported in scientific literature (PMID 27608656), Gel Super Shift Assays reported in scientific literature, Proximity Ligation Assay reported in scientific literature (PMID 27808278), Chromatin Immunoprecipitation (ChIP) 1:10-1:500, Immunocytochemistry, Knockdown Validated
Application Notes	In Western blot, this antibody detects a single band at 37 kDa. In IHC, it can be competitively inhibited from recognizing the APE1 antigen in tissues using APE1 protein. It can also be used on frozen and fixed-paraffin sections and cytospin preps. In IHC-P, staining was observed in the nucleus of a human breast cancer xenograft. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

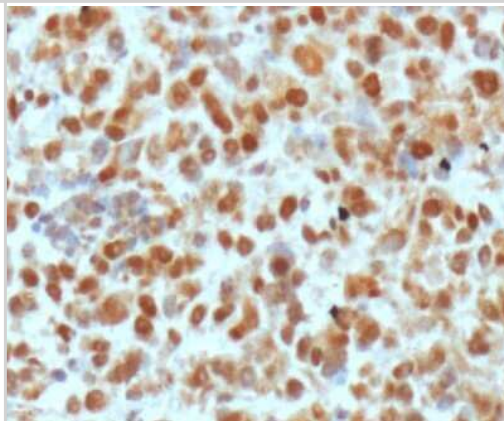
Western Blot: APE Antibody (13B8E5C2) - Azide and BSA Free [NBP2-80578] - Whole cell protein from human HeLa, A431, mouse Neuro2A and rat PC12 cells was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/mL anti-APE-1 in block buffer and detected with an anti-mouse HRP secondary antibody using chemiluminescence. Image from the standard format of this antibody.



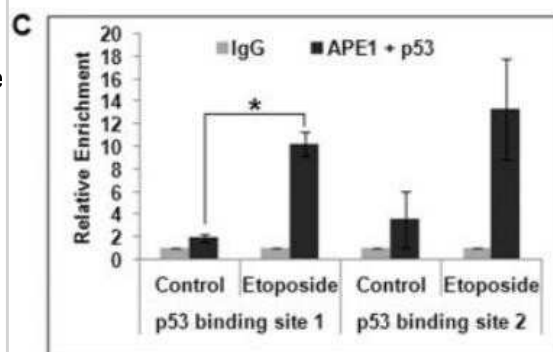
Immunocytochemistry: APE Antibody (13B8E5C2) - Azide and BSA Free [NBP2-80578] - Immunohistochemical staining of APE1. A. Nuclear staining in the luminal epithelium of normal breast ducts and lobules. B. Low, and C. high nuclear APE1 expression in invasive breast cancer. (magnification x400). Image collected and cropped by CiteAb from



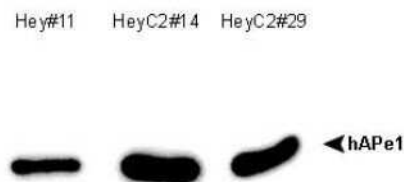
Immunohistochemistry: APE Antibody (13B8E5C2) - Azide and BSA Free [NBP2-80578] - APE1 antibody was tested in human breast cancer xenograft using DAB with hematoxylin counterstain. Image from the standard format of this antibody.



Chromatin Immunoprecipitation: APE Antibody (13B8E5C2) - Azide and BSA Free [NBP2-80578] - Association of p53 and APE1 on p53-binding sites in p21 promoter. Re-ChIP analysis (first IP with alpha-APE1 and the second IP with alpha-p53 antibody) showing simultaneous recruitment of APE1 and p53 in control vs. EPE treated cells; *: p value <0.05 (n=2) calculated based on APE1/p53 enriched DNA from control vs. etoposide treated cells. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0068467>) licensed under a CC-BY license. Image from the standard format of this antibody.



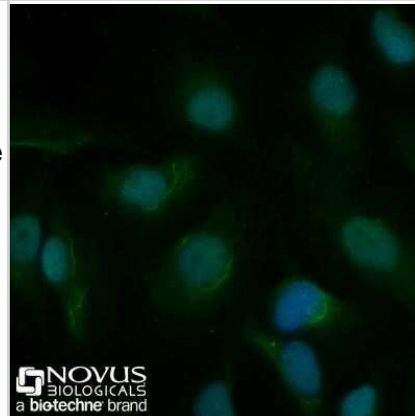
Western Blot: APE Antibody (13B8E5C2) - Azide and BSA Free [NBP2-80578] - Ovarian Cancer cell lines. Image from the standard format of this antibody.



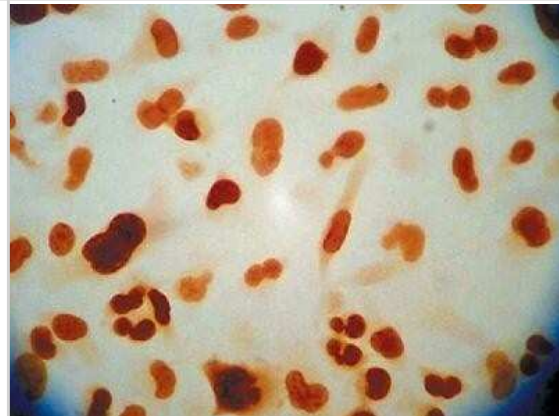
Immunocytochemistry/Immunofluorescence: APE Antibody (13B8E5C2) - Azide and BSA Free [NBP2-80578] - HeLa cells stained NB100-116 (Green) detected with DyLight Fluor 488 conjugated anti-rabbit IgG secondary antibody. Nuclei are counterstained with Hoechst 33258 (Blue). Image from the standard format of this antibody.



Immunocytochemistry/Immunofluorescence: APE Antibody (13B8E5C2) - Azide and BSA Free [NBP2-80578] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton X-100. The cells were incubated with anti-APE (13B8E5C2) at 5 ug/mL overnight at 4C and detected with an anti-mouse DyLight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.



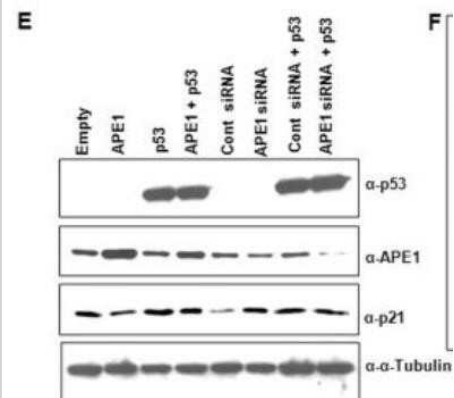
Immunocytochemistry: APE Antibody (13B8E5C2) - Azide and BSA Free [NBP2-80578] - Immunocytochemical detection of APE-ref-1 in breast cancer cell line MDA MB 231. Image from the standard format of this antibody.



Simple Western: APE Antibody (13B8E5C2) - Azide and BSA Free [NBP2-80578] - Image shows a specific band for APE1 in 0.1 mg/mL of HeLa lysate. This experiment was performed under reducing conditions using the 12-230kDa separation system. * Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody. Image from the standard format of this antibody.



Knockdown Validated: APE Antibody (13B8E5C2) - Azide and BSA Free [NBP2-80578] - Repression of p21 by APE1 in p53-null cells and effect of ectopic p53 in this repression. Representative Western analysis of p53, APE1, p21 and alpha-Tubulin levels in the same HCT116p53null cells. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0068467>) licensed under a CC-BY license. Image from the standard format of this antibody.





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Products Related to NBP2-80578

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)
NBP1-72280-50ug	Recombinant Human APE T7 Protein

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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