

# Product Datasheet

## APE Antibody Pack NB100-909

Unit Size: 4 Vials

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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### Publications: 4

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**NB100-909****APE Antibody Pack****Product Information**

<b>Unit Size</b>	4 Vials
<b>Concentration</b>	Concentration of individual antibodies may be found on the vial label. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Preservative</b>	0.05% Sodium Azide
<b>Buffer</b>	See individual datasheets

**Product Description**

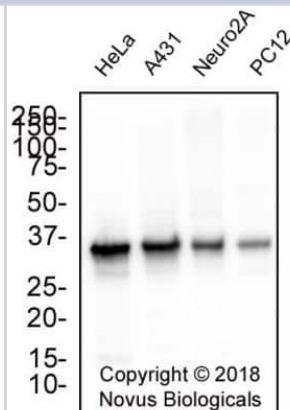
<b>Description</b>	This pack contains 1 vial each of: NB100-116 (0.1 mL), NB100-101 (0.1 mL).
<b>Gene ID</b>	328
<b>Gene Symbol</b>	APEX1
<b>Species</b>	Human, Mouse, Rat, Primate, Rabbit
<b>Reactivity Notes</b>	See individual datasheets of components for their validated species
<b>Specificity/Sensitivity</b>	These antibodies are specific for APE1.
<b>Immunogen</b>	See individual datasheets
<b>Kit Components</b>	NB100-101: APE Antibody - BSA Free, NB100-116: APE Antibody (13B8E5C2) - BSA Free, HAF007: Goat anti-Mouse IgG Secondary Antibody [HRP], HAF008: Goat anti-Rabbit IgG Secondary Antibody [HRP]

**Product Application Details**

<b>Applications</b>	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	Western Blot, Simple Western, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Chromatin Immunoprecipitation (ChIP)
<b>Application Notes</b>	See individual datasheets of components for their validated applications

**Images**

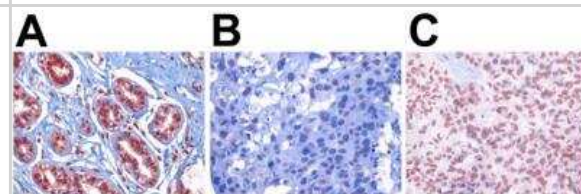
Western Blot: APE Antibody Pack [NB100-909] - Whole cell protein from human HeLa, A431, mouse Neuro2A and rat PC12 cells was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/mL anti-APE-1 (NB100-116) in block buffer and detected with an anti-mouse HRP secondary antibody using chemiluminescence.



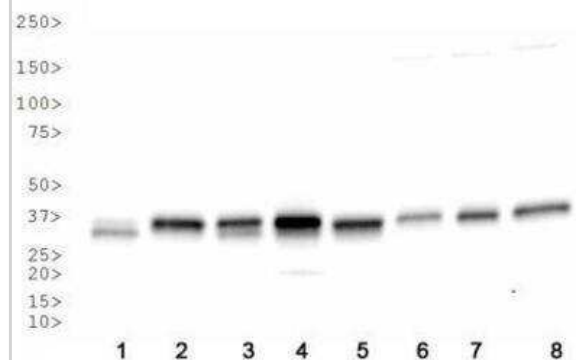
**Immunocytochemistry/Immunofluorescence:** APE Antibody Pack [NB100-909] - HeLa cells stained with anti-APE Antibody (NB100-116, Green) detected with DyLight Fluor 488 conjugated anti-rabbit IgG secondary antibody. Nuclei are counterstained with Hoechst 33258 (Blue).



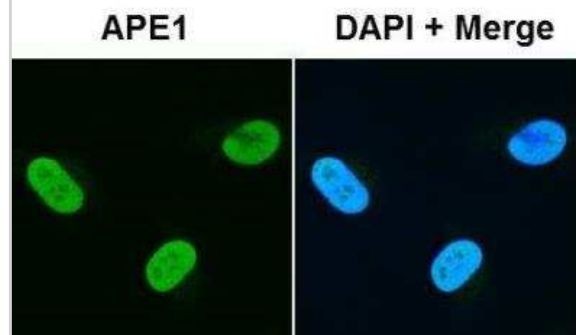
**Immunohistochemistry:** APE Antibody Pack [NB100-909] - Immunohistochemical staining of APE1 using NB100-116. A. Nuclear staining in the luminal epithelium of normal breast ducts and lobules. B. Low, and C. high nuclear APE1 expression in invasive breast cancer. (magnification x400). Image collected and cropped by CiteAb from the following publication (<https://doi.org/10.1371/journal.pone.0099528>) licensed under a CC-BY license.



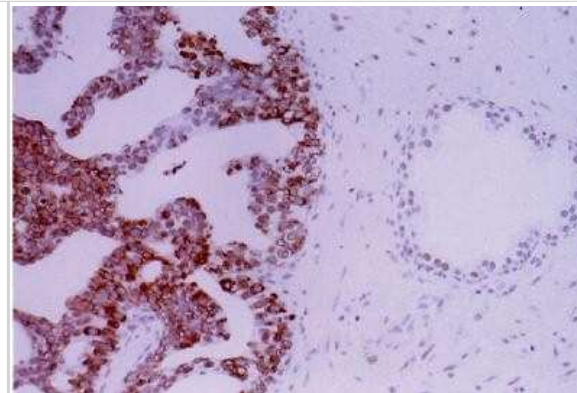
**Western Blot:** APE Antibody Pack [NB100-909] - Analysis of APE1 using NB100-101 in cell lysates: 1. HeLa, 2. Ntera2, 3. A431, 4. HepG2, 5. MCF7, 6. NIH 3T3, 7. PC12, and 8. Cos 7.



**Immunocytochemistry/Immunofluorescence:** APE Antibody Pack [NB100-909] - Detection of APE1 using NB100-101 in HeLa cells. Image from verified customer review.



Immunohistochemistry: APE1 Antibody Pack [NB100-909] - Staining of APE-ref-1 in prostate cancer, using NB100-101.



Simple Western: APE Antibody Pack [NB100-909] - Lane view shows a specific band for APE1 using NB100-101 in 0.1 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Western Blot: APE Antibody Pack [NB100-909] - Repression of p21 by APE1 in p53-null cells and effect of ectopic p53 in this repression. Representative Western analysis of p53, APE1 (using NB100-116), p21 and alpha-Tubulin levels in the same HCT116p53null cells. Image collected and cropped by CiteAb from the following publication ([//dx.plos.org/10.1371/journal.pone.0068467](https://doi.org/10.1371/journal.pone.0068467)) licensed under a CC-BY license.



## Publications

Zou GM, Yu J, LeBron C, Fu Y. RNAi Knockdown of Ape1 Gene in the Differentiation of Mouse Embryonic Stem Cells Methods Mol. Biol. 2017-07-04 [PMID: 28674806] (Mouse)

Zou GM, Lebron C, Fu Y. RNAi knockdown of redox signaling protein Ape1 in the differentiation of mouse embryonic stem cells. Methods Mol Biol 2010-01-01 [PMID: 20686948] (WB, Mouse)

Briegert, M, Kaina, B. Human monocytes, but not dendritic cells derived from them, are defective in base excision repair and hypersensitive to methylating agents. Cancer Res;67(1):26-31. 2007-01-01 [PMID: 17210680]

Zou, GM et al. Ape1 regulates hematopoietic differentiation of embryonic stem cells through its redox functional domain. Blood;109(5):1917-22. 2007-03-01 [PMID: 17053053]



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### **Products Related to NB100-909**

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NBP1-49581	APE1 Redox Inhibitor
NBP1-72280-50ug	Recombinant Human APE T7 Protein
NB100-106	OGG1 Antibody - BSA Free
NB100-116	APE Antibody (13B8E5C2) - BSA Free

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### **Limitations**

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

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