

# Product Datasheet

## p53 Antibody (PAb 240) - BSA Free NB200-103

Unit Size: 0.1 ml

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

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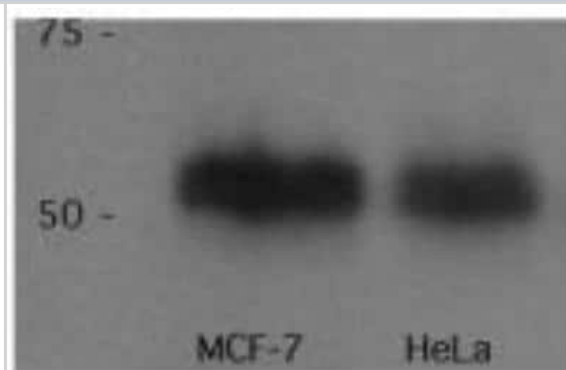
**NB200-103**

p53 Antibody (PAb 240) - BSA Free

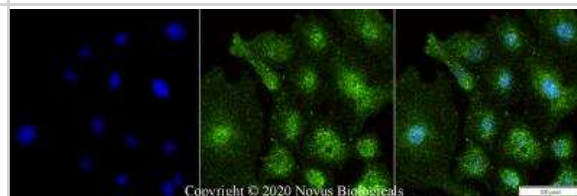
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	PAb 240
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	7157
<b>Gene Symbol</b>	TP53
<b>Species</b>	Human, Mouse, Rat, Yeast, Xenopus (Negative)
<b>Reactivity Notes</b>	Yeast reactivity reported in scientific literature (PMID: 8710879)
<b>Specificity/Sensitivity</b>	This monoclonal recognizes both mutant forms and wild-type human p53 under denaturing conditions. It does not recognize nondenatured wild type p53. In nondenaturing conditions (IP) it only recognizes mutant p53.
<b>Immunogen</b>	Gel-purified p53-beta-galactosidase fusion protein containing murine p53 from aa 14-389 (derived from pSV53C cDNA clone).
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 1:1000-1:2000, Flow Cytometry 1:10-1:1000, ELISA 1:100-1:2000, Immunohistochemistry 1:250-1:500, Immunocytochemistry/ Immunofluorescence 5 ug/ml. Use reported in scientific literature (PMID 1394225), Immunoprecipitation 10ug/mg, Immunohistochemistry-Paraffin 1:250-1:500, Immunohistochemistry-Frozen reported in multiple pieces of scientific literature, Flow (Intracellular), CyTOF-ready
<b>Application Notes</b>	Antigen retrieval with IHC-P is not essential but may optimize staining. In IP this antibody reacts with only mutant p53 protein under non-denaturing conditions. This antibody is CyTOF ready.

## Images

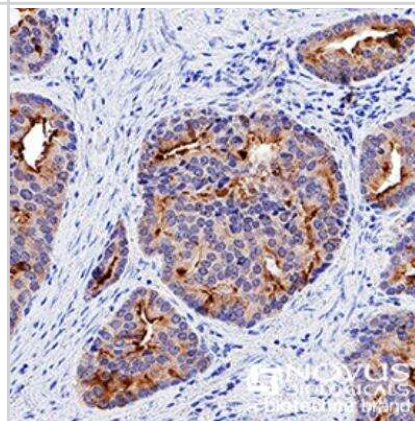
**Western Blot: p53 Antibody (PAb 240) [NB200-103]** - Analysis of p53 in MCF7 and HeLa lysates. Image courtesy of anonymous customer product review.



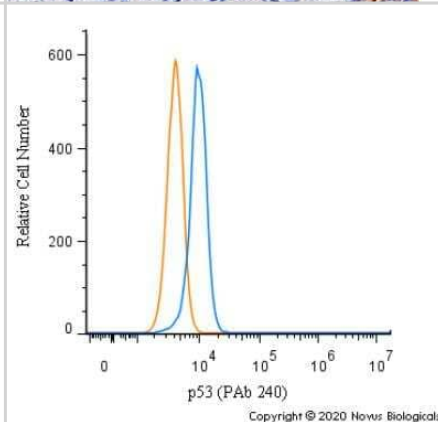
**Immunocytochemistry/Immunofluorescence: p53 Antibody (PAb 240) [NB200-103]** - PC12 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-p53 Antibody (PAb 240) NB200-103 at 2 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



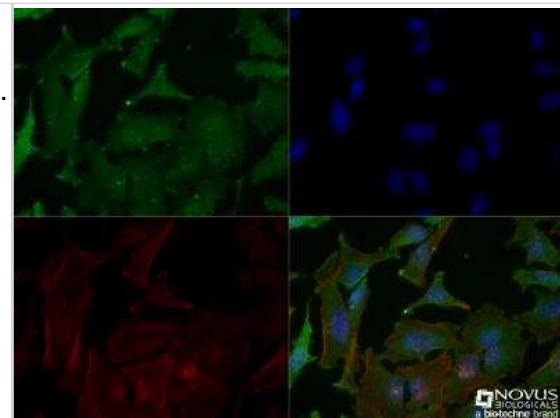
**Immunohistochemistry-Paraffin: p53 Antibody (PAb 240) [NB200-103]** - p53 was detected in immersion fixed paraffin-embedded sections of human prostate cancer using anti-human mouse monoclonal antibody (Catalog # NB200-103) at 1:200 dilution overnight at 4C. Tissue was stained using the VisuCyte anti-mouse HRP polymer detection reagent (Catalog # VC001) with DAB chromogen (brown) and counterstained with hematoxylin (blue). Images may not be copied, printed or otherwise disseminated without express written permission of Novus Biologicals a bio-techne brand.



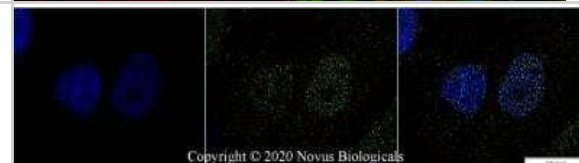
**Flow Cytometry: p53 Antibody (PAb 240) [NB200-103]** - An intracellular stain was performed on HeLa cells with p53 Antibody [PAb 240] NB200-103 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1.0 ug/mL for 30 minutes at room temperature, followed by Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550 (35503, Thermo Fisher).



Immunocytochemistry/Immunofluorescence: p53 Antibody (PAb 240) [NB200-103] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-p53 (PAb 240) [NB200-103] at a 1:200 dilution overnight at 4C and detected with an anti-mouse DyLight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



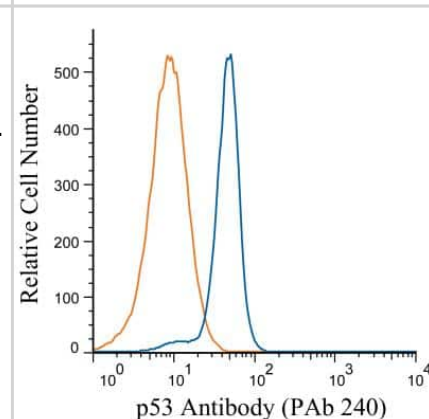
Immunocytochemistry/Immunofluorescence: p53 Antibody (PAb 240) [NB200-103] - HeLa cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-p53 Antibody (PAb 240) NB200-103 at 2 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



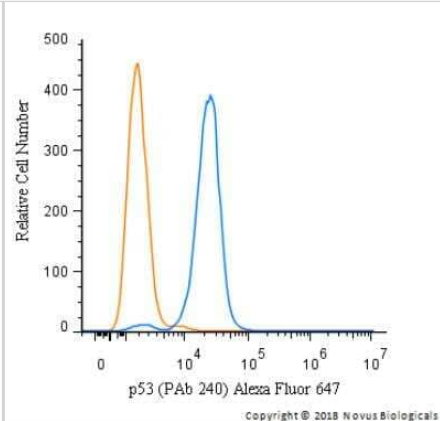
Immunocytochemistry/Immunofluorescence: p53 Antibody (PAb 240) [NB200-103] - Neuro2a cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-p53 Antibody (PAb 240) NB200-103 at 2 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



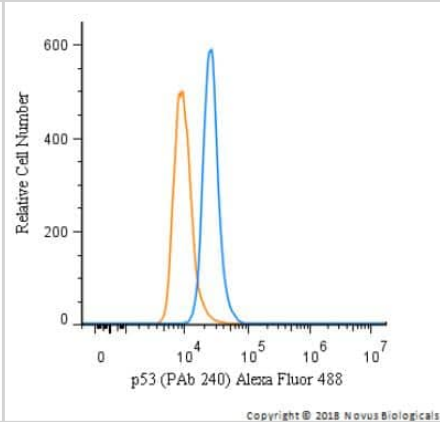
Flow (Intracellular): p53 Antibody (PAb 240) [NB200-103] - An intracellular stain was performed on HeLa cells with p53 (PAb240) NB200-103 (blue) and a matched isotype control NBP2-27287 (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature, followed by APC-conjugated anti-mouse IgG secondary antibody F0101B.



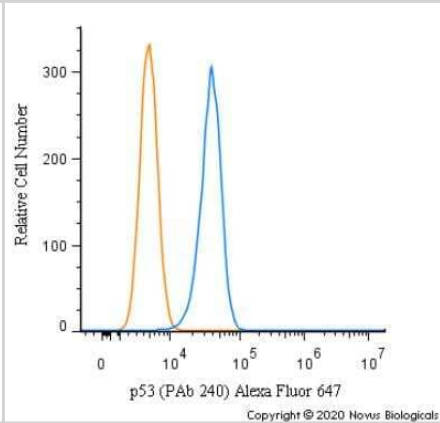
Flow Cytometry: p53 Antibody (PAb 240) [NB200-103] - An intracellular stain was performed on HeLa cells with p53 (PAb240) NB200-103AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



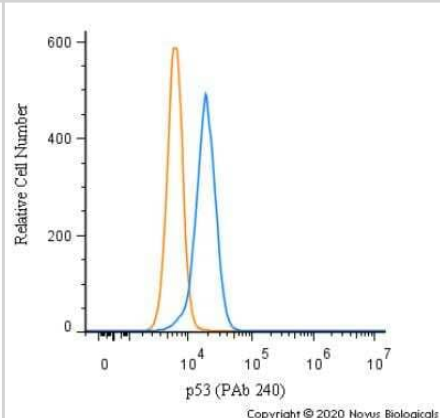
Flow Cytometry: p53 Antibody (PAb 240) [NB200-103] - An intracellular stain was performed on A549 cells with p53 (PAb240) NB200-103AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



Flow Cytometry: p53 Antibody (PAb 240) [NB200-103] - An intracellular stain was performed on MCF7 cells with p53 [PAb 240] Antibody NB200-103AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



Flow Cytometry: p53 Antibody (PAb 240) [NB200-103] - An intracellular stain was performed on Neuro2a cells with p53 Antibody [PAb 240] NB200-103 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1.0 ug/mL for 30 minutes at room temperature, followed by Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550 (35503, Thermo Fisher).





## Publications

Aeshah A. Awaji, Moustafa A. Rizk, Raiedhah A. Alsaiari, Norah F. Alqahtani, Fatima A. Al-Qadri, Ali S. Alkorbi, Hani S. Hafez, Reda F. M. Elshaarawy, Silviya Petrova Zustiak, Mathea Sophia Galanski Chemotherapeutic Activity of Imidazolium-Supported Pd(II) o -Vanillylidene Diaminocyclohexane Complexes Immobilized in Nanolipid as Inhibitors for HER2/neu and FGFR2/FGF2 Axis Overexpression in Breast Cancer Cells Pharmaceuticals 2023-12-11 [PMID: 38139837]

R Caspa Goku, K Paulrasu, J Azfar, W El-Rifai, J Que, OG Boutaud, Y Ban, Z Gao, MG Buitrago, SI Dikalov, AI Zaika Protein adduction causes non-mutational inhibition of p53 tumor suppressor Cell Reports, 2023-01-23;42(1):112024. 2023-01-23 [PMID: 36848235]

Tian HP, Sun YH, He L et al. Single-Stranded DNA-Binding Protein 1 Abrogates Cardiac Fibroblast Proliferation and Collagen Expression Induced by Angiotensin II. Int Heart J. 2018-10-25 [PMID: 30369577]

Yue W, Ma J, Xiao Y et al. The Apoptotic Resistance of BRCA1-Deficient Ovarian Cancer Cells is Mediated by cAMP Frontiers in Cell and Developmental Biology 2022-04-20 [PMID: 35517499]

Anton PE, Rutt LN, Capper C et al. Profiling the oxylipidome in aged mice after chronic ethanol feeding: Identifying lipid metabolites as drivers of hepatocyte stress Alcohol 2023-03-01 [PMID: 36150611] (Immunohistochemistry)

Khayati K, Bhatt V, Hu ZS et al. Autophagy compensates for Lkb1 loss to maintain adult mice homeostasis and survival eLife 2020-11-25 [PMID: 33236987] (Western Blot, Immunohistochemistry-Paraffin)

Mansky RH, Greguske EA, Yu D et al. Tumor suppressor p53 regulates heat shock factor 1 protein degradation in Huntington's disease Cell reports 2023-03-02 [PMID: 36867535] (IHC-P, WB, Mouse)

Radtke AJ, Chu CJ, Yaniv Z Et al. IBEX: an iterative immunolabeling and chemical bleaching method for high-content imaging of diverse tissues Nat Protoc 2022-01-13 [PMID: 35022622] (Hydrolysis Assay, Human)

### Details:

Citation using the Alexa Fluor 532 version of this antibody.

Reis-Barbosa PH, Marinho TS, Matsuura C et al. The obesity and nonalcoholic fatty liver disease mouse model revisited: Liver oxidative stress, hepatocyte apoptosis, and proliferation Acta histochemica 2022-08-08 [PMID: 35952484] (WB, Mouse)

Kong N, Chen X, Feng J et al. Baicalin induces ferroptosis in bladder cancer cells by downregulating FTH1 Acta Pharm Sin B 2022-01-13 [PMID: 35024325]

Marks D, Heinen N, Bachmann L et al. Amyloid precursor protein elevates fusion of promyelocytic leukemia nuclear bodies in human hippocampal areas with high plaque load Acta neuropathologica communications 2021-04-13 [PMID: 33849647] (IF/IHC, Human)

Fontana MC, Nanni J, Ghelli Luserna di RorA A et al. Pharmacological Inhibition of WIP1 Sensitizes Acute Myeloid Leukemia Cells to the MDM2 Inhibitor Nutlin-3a Biomedicines 2021-04-06 [PMID: 33917342] (WB, Human)

More publications at <http://www.novusbio.com/NB200-103>





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### **Products Related to NB200-103**

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NBL1-17203	p53 Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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### **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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