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Product datasheet for TA336582

p53 (TP53) Mouse Monoclonal Antibody [Clone ID: Pab 240]

Product data:

Product Type:	Primary Antibodies
Clone Name:	Pab 240
Applications:	CyTOF-ready, ELISA, FC, ICC/IF, IHC, IP, WB
Recommended Dilution:	Flow Cytometry: 1:10-1:1000, ELISA: 1:100-1:2000, Immunohistochemistry: 1:250-1:500, Immunoprecipitation: 10ug/mg, Western Blot: 1:1000-1:2000, Immunohistochemistry-Paraffin: 1:250-1:500, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence: 5 ug/ml, Immunohistochemistry-Frozen, CyTOF-ready
Reactivity:	Human, Mouse, Rat, Yeast (Does not react with: Xenopus)
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Gel-purified p53-beta-galactosidase fusion protein containing murine p53 from aa 14-389 (derived from pSV53C cDNA clone).
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	tumor protein p53
Database Link:	NP_000537 Entrez Gene 22059 MouseEntrez Gene 24842 RatEntrez Gene 7157 Human P04637

View online »

Background: The tumor suppressor protein p53 plays an important role in cancer development. The p53 protein is a transcription factor that acts as a checkpoint in the cell cycle, either preventing or initiating programmed cell death. Since cancer occurs as the malfunction in the proliferation of cells, disrupting p53 activity allows abnormal cells to multiply or allows a tumor's progression from benign to malignant. This antibody detects p53 in all mammals tested. Detection of p53 using this antibody: 50% of colon cancer sections are positive, 30% of breast cancer sections and 70% of lung cancer sections. Normal and premalignant tissues are negative.

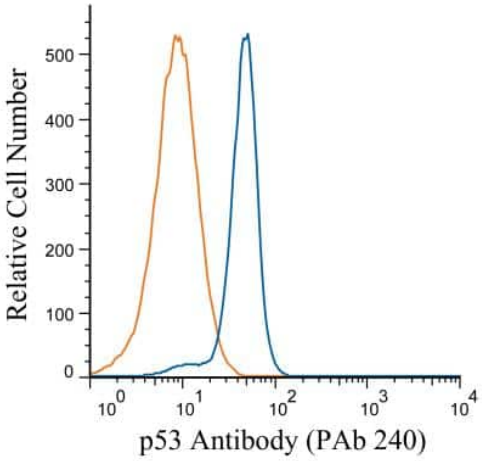
Synonyms: BCC7; LFS1; P53; TRP53

Note: Antigen retrieval with IHC-P is not essential but may optimise staining. In IP this antibody reacts with only mutant p53 protein under non-denaturing conditions. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID 1394225) Use in Immunohistochemistry-Frozen reported in various pieces of scientific literature.

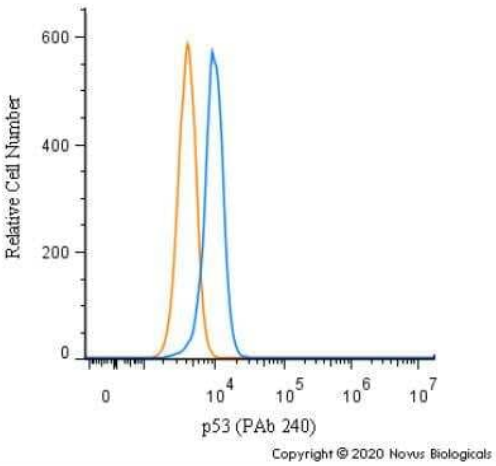
Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Protein Pathways: Amyotrophic lateral sclerosis (ALS), Apoptosis, Basal cell carcinoma, Bladder cancer, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, Glioma, Huntington's disease, MAPK signaling pathway, Melanoma, Neurotrophin signaling pathway, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, Small cell lung cancer, Thyroid cancer, Wnt signaling pathway

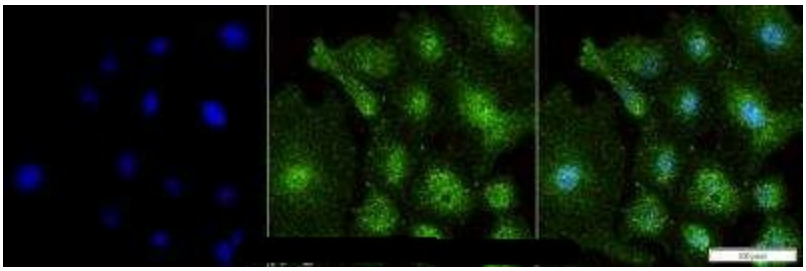
Product images:



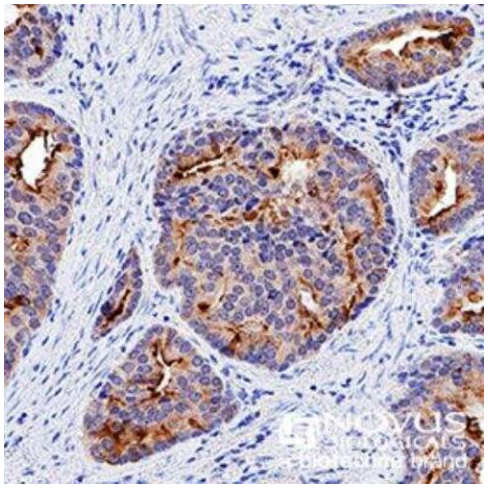
Flow (Intracellular): p53 Antibody (PAb 240) TA336582 - An intracellular stain was performed on HeLa cells with p53 (PAb240) TA336582 (blue) and a matched isotype control NBP2-27287 (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature, followed by APC-conjugated anti-mouse IgG secondary antibody F0101B.



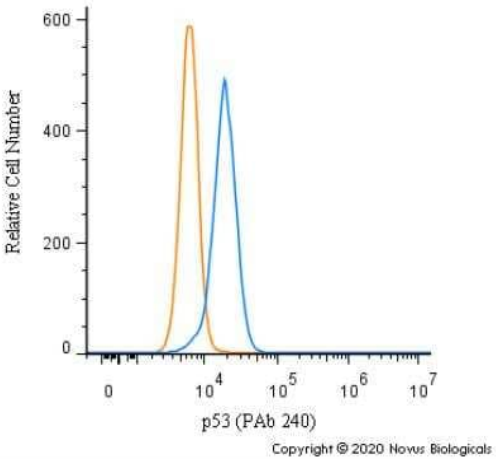
Flow Cytometry: p53 Antibody (PAb 240) TA336582 - An intracellular stain was performed on HeLa cells with p53 Antibody [PAb 240] TA336582 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution 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) TA336582 - 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) TA336582 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.

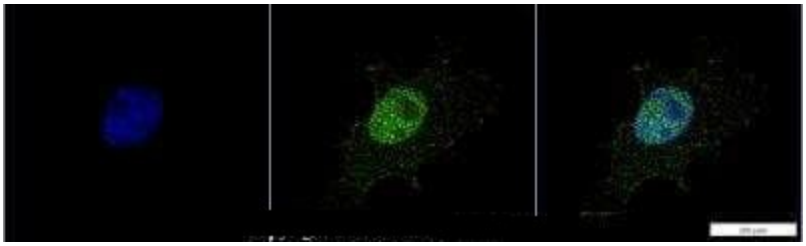


Immunohistochemistry-Paraffin: p53 Antibody (PAb 240) TA336582 - p53 was detected in immersion fixed paraffin-embedded sections of human prostate cancer using anti-human mouse monoclonal antibody (Catalog # TA336582) at 1:200 dilution overnight at 4C. Tissue was stained using the VisuCyte anti-mouse 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.

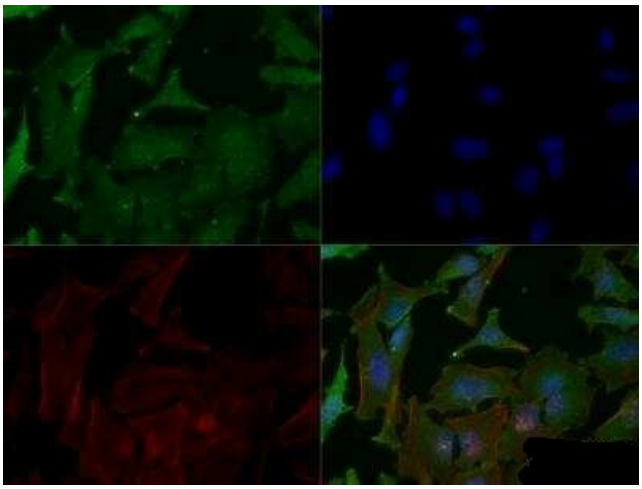


Flow Cytometry: p53 Antibody (PAb 240) TA336582 - An intracellular stain was performed on Neuro2a cells with p53 Antibody [PAb 240] TA336582 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution 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).

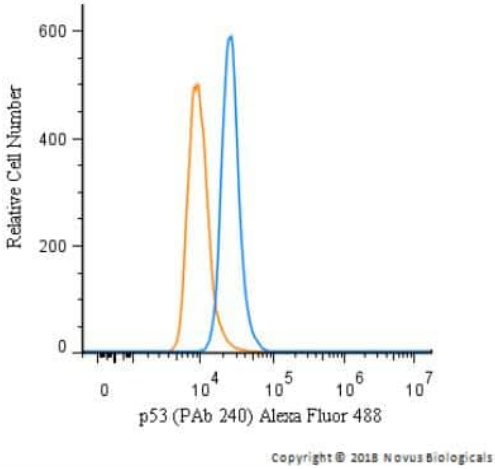
Immunocytochemistry/Immunofluorescence: p53 Antibody (PAb 240) TA336582 - HeLa cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-p53 Antibody (PAb 240) TA336582 at 2 ug/ml overnight at 4C and detected 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.



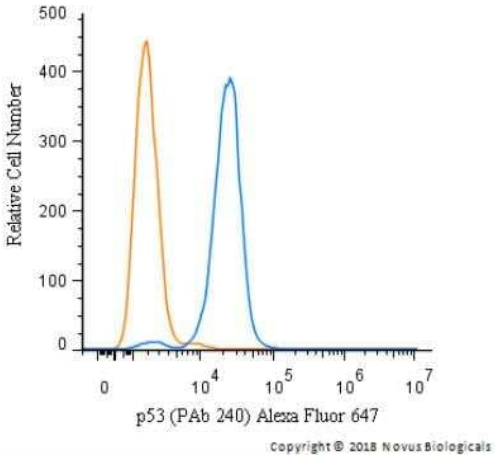
Immunocytochemistry/Immunofluorescence: p53 Antibody (PAb 240) TA336582 - Neuro2a cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-p53 Antibody (PAb 240) TA336582 at 2 ug/ml overnight at 4C and detected 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.



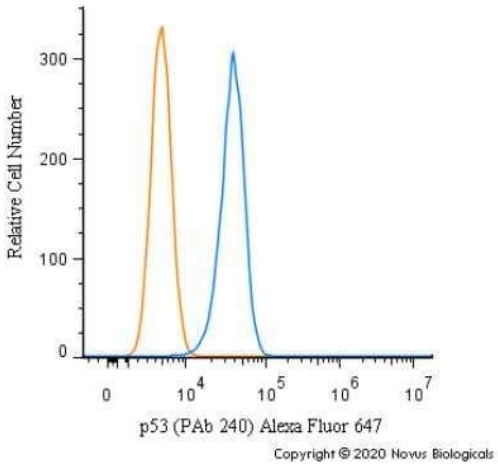
Immunocytochemistry/Immunofluorescence: p53 Antibody (PAb 240) TA336582 - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-p53 (PAb 240) TA336582 at a 1:200 dilution overnight at 4C and detected 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.



Flow Cytometry: p53 Antibody (PAb 240) TA336582 - An intracellular stain was performed on A549 cells with p53 (PAb240) TA336582AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeablized 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) TA336582 - An intracellular stain was performed on HeLa cells with p53 (PAb240) TA336582AF647 (blue) and a matched isotype control (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. Both antibodies were conjugated to Alexa Fluor 647.



Flow Cytometry: p53 Antibody (PAb 240) TA336582 - An intracellular stain was performed on MCF7 cells with p53 [PAb 240] Antibody TA336582AF647 (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.