

Product Datasheet

p53 Antibody (BP53-12) NBP2-29453

Unit Size: 0.1 mg

Store at 4C.

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NBP2-29453

p53 Antibody (BP53-12)

| Product Information | |
|-------------------------|--------------------------|
| Unit Size | 0.1 mg |
| Concentration | 0.2 mg/ml |
| Storage | Store at 4C. |
| Clonality | Monoclonal |
| Clone | BP53-12 |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG2a Kappa |
| Purity | Protein A or G purified |
| Buffer | 10 mM PBS with 0.05% BSA |
| Target Molecular Weight | 53 kDa |

| Product Description | |
|-------------------------|--|
| Description | <p>200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-33074)</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.</p> |
| Host | Mouse |
| Gene ID | 7157 |
| Gene Symbol | TP53 |
| Species | Human, Canine, Chicken, Hamster, Monkey, Mouse (Negative), Rat (Negative) |
| Reactivity Notes | Does not react with Mouse or Rat. |
| Specificity/Sensitivity | <p>This monoclonal antibody reacts with an N-terminal epitope (aa 16-25) of both wild type and mutated p53. Mutation and/or allelic loss of p53 is one of the causes of a variety of mesenchymal and epithelial tumors. If it occurs in the germ line, such tumors run in families. In most transformed and tumor cells the concentration of p53 is increased 51000 fold over the minute concentrations (1000 molecules cell) in normal cells, principally due to the increased half-life (4 h) compared to that of the wild-type (20 min). p53 Localizes in the nucleus, but is detectable at the plasma membrane during mitosis and when certain mutations modulate cytoplasmic/nuclear distribution. Mutations arise with an average frequency of 70% but incidence varies from zero in carcinoid lung tumors to 97% in primary melanomas. High concentrations of p53 protein are transiently expressed in human epidermis and superficial dermal fibroblasts following mild ultraviolet irradiation. Positive nuclear staining with p53 antibody has been reported to be a negative prognostic factor in breast carcinoma, lung carcinoma, colorectal, and urothelial carcinoma. Anti-p53 positivity has also been used to differentiate uterine serous carcinoma from endometrioid carcinoma as well as to detect intratubular germ cell neoplasia.</p> |
| Immunogen | Recombinant human wild-type p53 protein (Uniprot: P04637) |

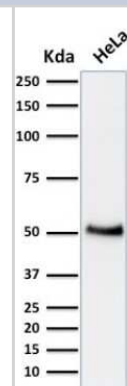
| Product Application Details | |
|-----------------------------|---|
| Applications | Western Blot, Simple Western, Immunohistochemistry, Immunohistochemistry-Paraffin |



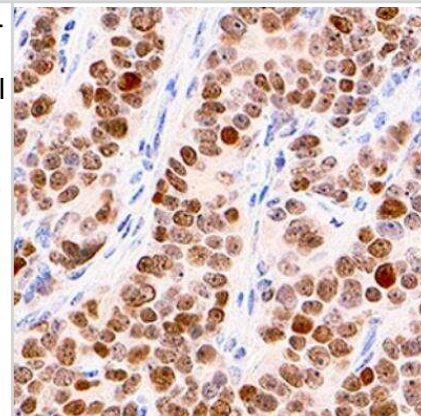
| | |
|------------------------------|--|
| Recommended Dilutions | Western Blot 1-2 ug/ml, Simple Western 10 ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin 1-2 ug/ml |
| Application Notes | Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in MDA-MB-231 lysate, separated by Size, antibody dilution of 10 ug/mL, apparent MW was 60 kDa. |

Images

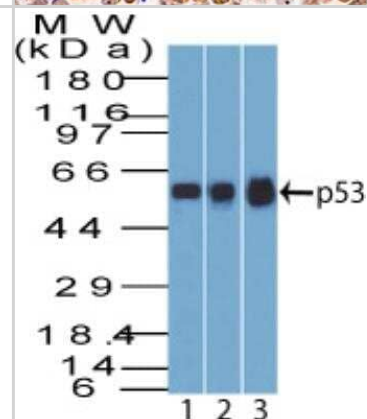
Western Blot: p53 Antibody (BP53-12) [NBP2-29453] - Western Blot Analysis of human HeLa cell lysate using p53 Antibody (BP53-12).



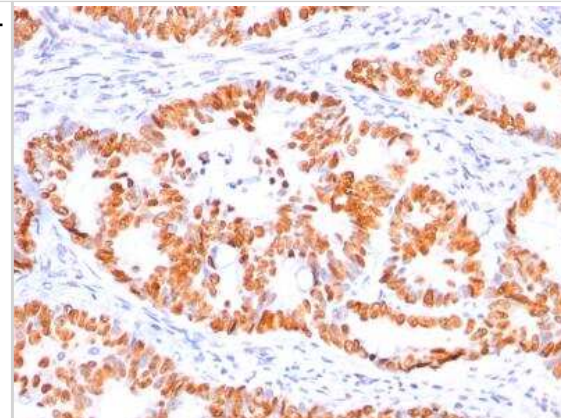
Immunohistochemistry-Paraffin: p53 Antibody (BP53-12) [NBP2-29453] - p53 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using a 1 ug/mL mouse anti-p53 monoclonal (NBP2-29453, Novus Biologicals) for 1 hour at room temperature followed by the appropriate HRP polymer reagent, anti-mouse IgG VisUCyte HRP polymer (VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue).



Western Blot: p53 Antibody (BP53-12) [NBP2-29453] - Analysis of p53 1) A431 2) MCF7 and 3) HEK293 lysate probed with p53 antibody at 1 ug/ml. goat anti-mouse Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.



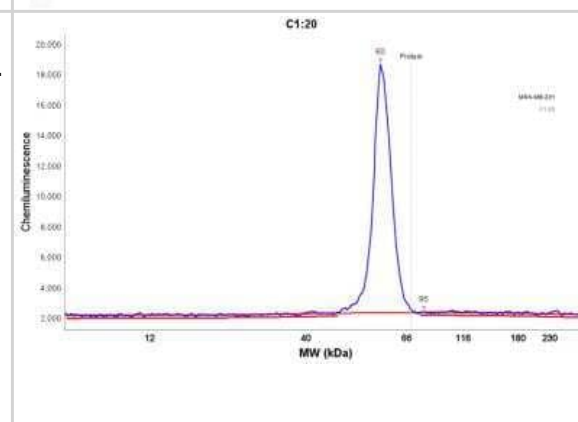
Immunohistochemistry-Paraffin: p53 Antibody (BP53-12) [NBP2-29453] - Formalin-paraffin human colon carcinoma stained with p53 Ab (BP53-12).



Simple Western: p53 Antibody (BP53-12) [NBP2-29453] - Simple Western lane view shows a specific band for p53 in 0.2 mg/ml of MDA-MB-231 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Simple Western: p53 Antibody (BP53-12) [NBP2-29453] - Electropherogram image of the corresponding Simple western lane view. p53 antibody was used at 10 ug/ml dilution on MDA-MB-231 lysate(s) respectively.



Publications

Liu L, Gong X, Zhang X et al. Resveratrol Alleviates Heat-Stress-Induced Impairment of the Jejunal Mucosa Through TLR4/MAPK Signaling Pathway in Black-Boned Chicken Poultry Science 2023-10-01 [PMID: 37980746] (Western Blot, Avian - Chicken)

Silver B, Gerrish K, Tokar E. Cell-free DNA as a potential biomarker of differentiation and toxicity in cardiac organoids eLife 2023-06-01 [PMID: 37261896] (Block/Neutralize)

Bai X, Ye D, Shi Y et al. Neuroprotection of SRT2104 in Murine Ischemia/Reperfusion Injury Through the Enhancement of Sirt1-Mediated Deacetylation Investigative ophthalmology & visual science 2023-04-03 [PMID: 37099021] (WB, Mouse)

Details:
1:200 dilution

Eskiler GG, Turna O, Ozkan AD et al. The response of the canine mammary simple carcinoma and carcinosarcoma cells to 5-aminolaevulinic acid-based photodynamic therapy: An in vitro study Journal of photochemistry and photobiology. B, Biology 2022-07-05 [PMID: 35810598] (WB, Canine)

Guo J, Yan WR, Tang JK et al. Dietary phillygenin supplementation ameliorates aflatoxin B1-induced oxidative stress, inflammation, and apoptosis in chicken liver Ecotoxicology and environmental safety 2022-05-01 [PMID: 35405527] (WB, Chicken)

Park S, Uchida T, Tilson S et al. A Dual Conditional CRISPR/Cas9 System to Activate Gene Editing and Reduce Off-Target Effects in Human Stem Cells Molecular Therapy - Nucleic Acids 2022-04-01 [PMID: 35615005] (Simple Western)

Morphine promotes tumor angiogenesis and increases breast cancer progression Bimonte S, Barbieri A, Rea D Biomed Res Int [PMID: 26064880] (WB, Human)

Tordjman J, Majumder M, Amiri M et al. Tumor suppressor role of cytoplasmic polyadenylation element binding protein 2 (CPEB2) in human mammary epithelial cells BMC Cancer 2019-06-11 [PMID: 31185986] (WB, Human)

Samaga KKL, Rao GV, Chandrashekara Reddy G. Synthetic racemates of abyssinone I and II induces apoptosis through mitochondrial pathway in human cervix carcinoma cells. Bioorganic Chemistry. 2014-06-26 [PMID: 25019692] (WB, Human)

Details:
Fig 6: HeLa





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Products Related to NBP2-29453

| | |
|------------------|---|
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB720-B | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-96981-0.5mg | Mouse IgG2a Kappa Isotype Control (M2AK) |
| NBP2-56234PEP | p53 Recombinant Protein Antigen |

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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