

Product Datasheet

p53 Antibody (BP53-12) - Azide and BSA Free NBP2-33074

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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NBP2-33074

p53 Antibody (BP53-12) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	BP53-12
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS
Target Molecular Weight	53 kDa

Product Description	
Description	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-29453). Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
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	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.
Immunogen	Recombinant human wild-type p53 protein (Uniprot: P04637)

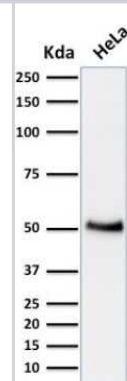
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready



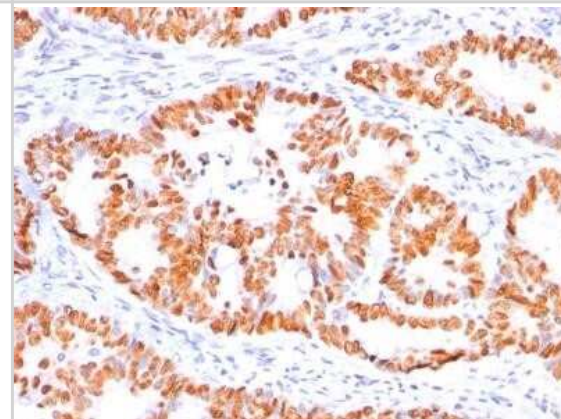
Recommended Dilutions	Western Blot 0.5-1.0ug/ml, Simple Western, Immunohistochemistry, Immunohistochemistry-Paraffin 0.5-1.0ug/ml, CyTOF-ready
Application Notes	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 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. Separated by Size.

Images

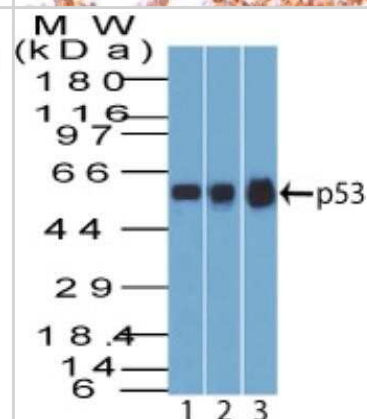
Western Blot: p53 Antibody (BP53-12) - Azide and BSA Free [NBP2-33074] - Western Blot Analysis of human HeLa cell lysate using p53 Antibody (BP53-12).



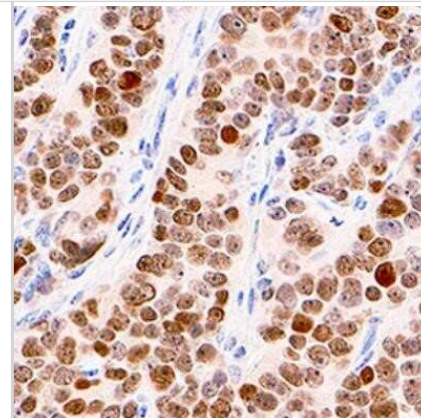
Immunohistochemistry-Paraffin: p53 Antibody (BP53-12) - Azide and BSA Free [NBP2-33074] - Formalin-paraffin human colon carcinoma stained with p53 Ab (BP53-12).



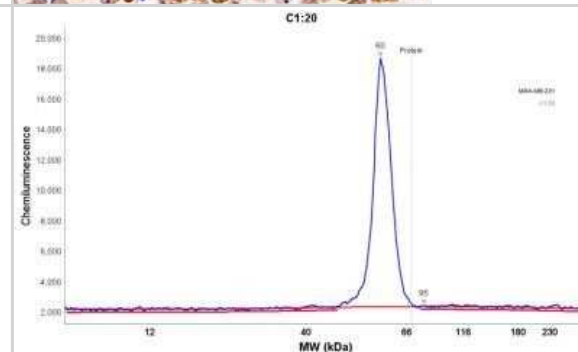
Western Blot: p53 Antibody (BP53-12) - Azide and BSA Free [NBP2-33074] - Analysis of p53 1) A431 2) MCF7 and 3) HEK293 lysate probed with p53 antibody at 1 ug/ml. goat anti-mouse Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.



Immunohistochemistry-Paraffin: p53 Antibody (BP53-12) - Azide and BSA Free [NBP2-33074] - 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-mou



Simple Western: p53 Antibody (BP53-12) - Azide and BSA Free [NBP2-33074] - 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.



Simple Western: p53 Antibody (BP53-12) - Azide and BSA Free [NBP2-33074] - 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.





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Products Related to NBP2-33074

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)
NBP2-34495PEP	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.

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