

# Product Datasheet

## p53 Antibody (TRP/816) NBP2-59626-100ug

Unit Size: 100 ug

Store at 4C.

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**NBP2-59626-100ug**

p53 Antibody (TRP/816)

Product Information	
Unit Size	100 ug
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	TRP/816
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>Human Chromosome Location:17p13.1</p> <p>200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA &amp; 0.05% azide. Also available WITHOUT BSA &amp; azide at 1.0 mg/ml. (NBP2-59628)</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
Specificity/Sensitivity	<p>The specificity of this monoclonal antibody to its intended target was validated by HuProt™ Array, containing more than 19,000, full-length human proteins. Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild form of p53 under denaturing and non-denaturing conditions. p53 is a tumor suppressor gene expressed in a wide variety of tissue types and is involved in regulating cell growth, replication, and apoptosis. It binds to MDM2, SV40 T antigen and human papilloma virus E6 protein. 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. Mutations involving p53 are found in a wide variety of malignant tumors, including breast, ovarian, bladder, colon, lung, and melanoma.</p>
Immunogen	Recombinant human full-length p53 protein (Uniprot: P04637)

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array, Knockout Validated
Recommended Dilutions	Western Blot 1-2 ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin 1-2 ug/ml, Protein Array 1:100-1:2000, Knockout Validated 0.5 ug/ml

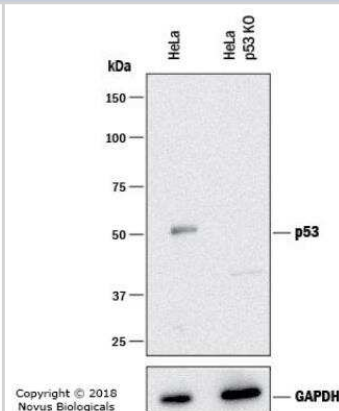


**Application Notes**

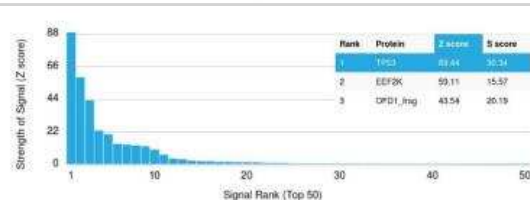
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

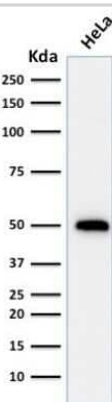
**Knockout Validated: p53 Antibody (TRP/816) [NBP2-59626]** - Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and p53 knockout (KO) HeLa cell line. PVDF membrane was probed with 0.5 ug/ml of Mouse Anti-Human HSP27 Monoclonal Antibody (Catalog # NBP2-59626) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (catalog number HAF018). Specific band was detected for p53 at approximately 53 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. This experiment was conducted under reducing conditions.



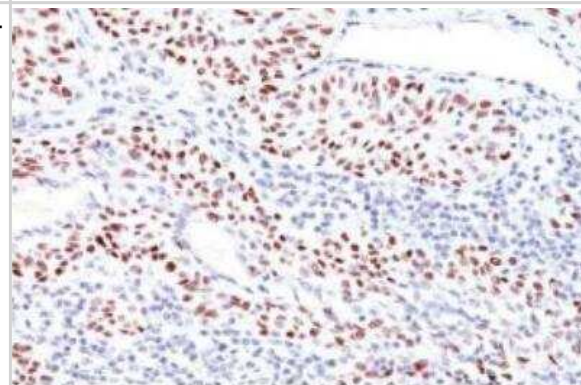
**Protein Array: p53 Antibody (TRP/816) [NBP2-59626]** - containing more than 19,000 full-length human proteins. Z- and S- Score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary) produces when binding to a particular protein on the HuProt array. Z-scores are described in units of standard deviations above the mean value of all signals generated on that array. If targets on HuProt are arranged in descending order of the Z-score, the S-score is the difference between the Z-score. S-score therefore represents the relative target specificity of an Ab to its intended target. An Ab is considered to be specific to its intended target, if the Ab has an S-score of at least 2.5. For example, if Ab binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Ab to protein X is equal to 29



**Western Blot: p53 Antibody (TRP/816) [NBP2-59626]** - Western Blot Analysis of human HeLa cell lysate using p53 Antibody (TRP/816).



**Immunohistochemistry-Paraffin: p53 Antibody (TRP/816) [NBP2-59626]** - Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with p53 Mouse Monoclonal Antibody (TRP/816).





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### **Products Related to NBP2-59626-100ug**

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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

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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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