

# 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 &amp; 0.05% azide. Also available WITHOUT BSA &amp; 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
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	
Recommended Dilutions	Western Blot 1-2 ug/ml, Simple Western 10 ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin 1-2 ug/ml, Multiplex Immunofluorescence 12ug/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.





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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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