

# Product Datasheet

## p53 Antibody (pAb1801)

### NBP2-59633-100ug

Unit Size: 100 ug

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-59633-100ug**

p53 Antibody (pAb1801)

Product Information	
Unit Size	100 ug
Concentration	0.2 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	pAb1801
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10mM PBS with 0.05% BSA
Target Molecular Weight	53 kDa

Product Description	
Description	<b>Human Chromosome Location:</b> 17p13.1 <b>Positive Control:</b> MDA-MB-231 Cells. Breast or Colon carcinoma
Host	Mouse
Gene ID	7157
Gene Symbol	TP53
Species	Human
Specificity/Sensitivity	The specificity of this monoclonal antibody to human p53 was validated by HuProt™ Array, containing more than 19,000, full-length human proteins. This MAb reacts with an N-terminal epitope (aa32-79) 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 5-1000 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	Human p53 galactosidase fusion protein

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array
Recommended Dilutions	Western Blot 0.5-1 ug/ml, Flow Cytometry 0.5-1 ug/million cells, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 0.5-1 ug/ml, Protein Array 1:100-1:2000



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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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