

**Phospho-Ser392 p53 Antibody**  
Affinity purified rabbit polyclonal antibody  
Catalog # AN1021

**Specification**

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**Phospho-Ser392 p53 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P04637</a>
Reactivity	Rat
Predicted	Human
Host	Rabbit
Clonality	polyclonal
Calculated MW	53 KDa

**Phospho-Ser392 p53 Antibody - Additional Information**

Gene ID	7157
Gene Name	TP53

**Other Names**

Cellular tumor antigen p53, Antigen NY-CO-13, Phosphoprotein p53, Tumor suppressor p53, TP53, P53

**Target/Specificity**

Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser392 conjugated to KLH.

**Dilution**

WB~~ 1:1000

**Format**

Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.

**Antibody Specificity**

Specific for the ~53k p53 protein phosphorylated at Ser392. The immunolabeling is completely eliminated by  $\lambda$ -phosphatase treatment.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Phospho-Ser392 p53 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

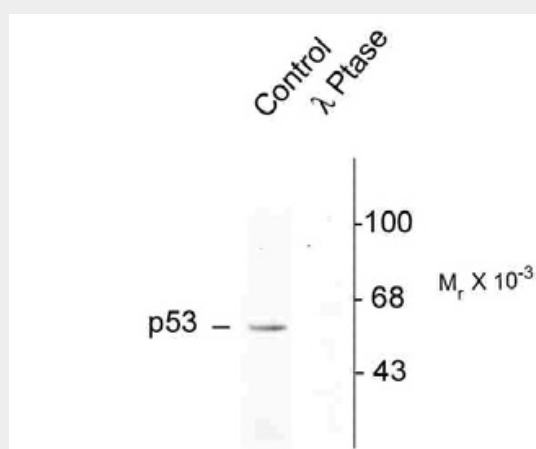
Blue Ice

## Phospho-Ser392 p53 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Phospho-Ser392 p53 Antibody - Images



Western blot of rat brain nuclear fraction lysate showing specific immunolabeling of the ~53k p53 phosphorylated at Ser392 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase:  $\lambda$ -Ptase). The blot is identical to the control except that it was incubated in  $\lambda$ -Ptase (1200 units for 30 min) before being exposed to the phospho Ser392 p53 antibody. The immunolabeling is completely eliminated by treatment with  $\lambda$ -Ptase.

## Phospho-Ser392 p53 Antibody - Background

p53 has a well established role in blocking the proliferative action of damaged cells and acting in essence as an anticancer agent (Sharpless and DePinho, 2002; Yin et al., 1992). It has been called the guardian of the genome (Lane, 1992). Phosphorylation of Ser392 in p53 is associated with formation of human tumors (Saito et al., 2003; Pise-Masison et al., 1998; Kim et al., 2004). In addition, p53 has been linked to effects of aging and oxidative stress (Sharpless and DePinho, 2002). An increase in p53 has also been linked to deficits in LTP and learning and memory (Jiang et al., 1998).

## Phospho-Ser392 p53 Antibody - References

- Jiang YH, Armstrong D, Albrecht U, Atkins CM, Noebels JL, Eichele G, Sweatt JD, Beaudet AL (1998) Mutation of the angelman ubiquitin ligase in mice causes increased cytoplasmic p53 and deficits of contextual learning and long-term potentiation. *Neuron* 21:799-811.
- Kim YY, Park BJ, Kim DJ, Kim WH, Kim S, Oh KS, Lim JY, Kim J, Park C, Park SI (2004) Modification of serine 392 is a critical event in the regulation of p53 nuclear export and stability. *FEBS Lett* 572:92-98.
- Lane DP (1992) p53, guardian of the genome. *Nature (London)* 358:15-16.
- Pise-Masison CA, Radonovich M, Sakaguchi K, Appella E, Brady JN (1998) Phosphorylation of p53: a

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Sharpless NE, DePinho RA (2002) p53: Good cop/bad cop. Cell 110:9-12.

Yin Y, Tainsky MA, Bischoff FZ, Strong LC, Wahl GM (1992) Wild-type p53 restores cell cycle control and inhibits gene amplification in cells with mutant p53 alleles. Cell 70:937-948.