

Product datasheet for **AM03100PU-N**

p53 (TP53) pSer392 Mouse Monoclonal Antibody [Clone ID: FP3.2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	FP3.2
Applications:	IHC, WB
Recommended Dilution:	Western Blotting: 1 µg/ml. Immunohistochemistry on Paraffin Sections: 10 µg/ml. <i>Staining technique:</i> Standard ABC technique (DAB+) <i>Pretreatment:</i> High temperature antigen retrieval (microwave, pressure cooker) in 10 mM citrate buffer pH 6.0 or 1 mM EDTA-NaOH buffer pH 8.0. <i>Incubation Time:</i> 1 hour at RT or overnight at 4°C <i>Positive Tissue:</i> breast carcinoma with high level of wild-type p53.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	KLH-conjugated phosphopeptide RHKKLMFKTEGPDS[P] corresponding to amino acids 378-393 representing the C-terminus of Human p53.
Specificity:	This p53 antibody FP3.2 [FPS392] reacts with Human p53 tumour suppressor protein phosphorylated at CKII site (Ser392).
Formulation:	PBS, pH~7.4 State: Aff - Purified State: Liquid purified IgG fraction (> 95% pure by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	lot specific
Purification:	Protein A Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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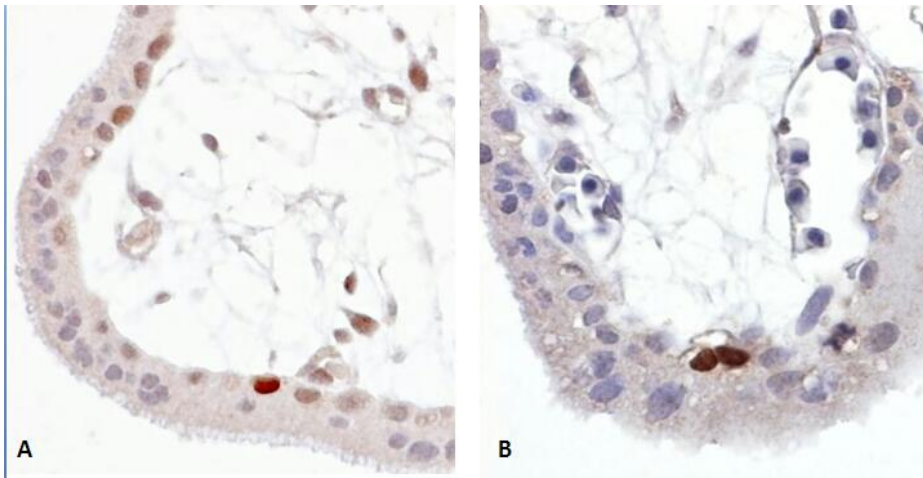
Gene Name: tumor protein p53
Database Link: [Entrez Gene 7157 Human P04637](#)

Background: The tumour suppressor protein p53 is a key element of intracellular anticancer protection. It mediates cell cycle arrest or apoptosis in response to DNA damage or to starvation for pyrimidine nucleotides. It is up-regulated in response to these stress signals and stimulated to activate transcription of specific genes, resulting in expression of p21waf1 and other proteins involved in G1 or G2/M arrest, or proteins that trigger apoptosis, such as Bcl-2. The structure of p53 comprises N-terminal transactivation domain, central DNA-binding domain, oligomerisation domain, and C-terminal regulatory domain. There are various phosphorylation sites on p53, of which the phosphorylation at Ser15 is important for p53 activation and stabilization.

Synonyms: Cellular tumor antigen p53, Tumor suppressor p53, Phosphoprotein p53, NY-CO-13

Note: **Predicted Molecular Weight:** 53 kDa

Product images:



Immunohistochemistry staining of Wild-type p53 expressed in human trophoblast (paraffin-embedded sections). A - anti-p53 (total) B- anti-p53 (phospho Ser392) Note that some of total p53 positive nuclei are also FP3.2 (phospho p53) positive.