

Product datasheet for **AM00101PU-N**

p53 (TP53) pSer392 Mouse Monoclonal Antibody [Clone ID: 9F4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9F4
Applications:	ELISA, WB
Recommended Dilution:	Western Blot: 1 µg/ml for HRPO/ECL detection. Recommended blocking buffer: BSA/Tween 20 based blocking and blot incubation buffer. DO NOT USE MILK OR CASEIN FOR BLOCKING! ELISA: 0.05 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH
Specificity:	This antibody specifically recognizes activated p53 phosphorylated at Serine 392. Anti-p53 antibody does not cross react with the non-phosphorylated form of p53 nor with unrelated serine-phosphorylated proteins.
Formulation:	1 ml 2 x PBS / 0.09% Sodium Azide / PEG and Sucrose State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 1 ml H ₂ O (15 min, RT).
Purification:	Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
Stability:	Shelf life: one year from despatch.
Gene Name:	tumor protein p53



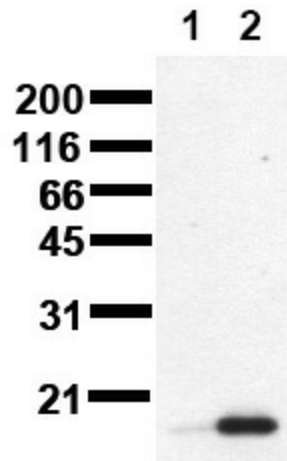
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Database Link: [Entrez Gene 7157 Human P04637](#)

Background: p53 plays a major role in the cellular response to DNA damage and other genomic aberrations. The activation of p53 can lead to either cell cycle arrest and DNA repair, or apoptosis. p53 is phosphorylated at multiple sites in vivo and by several different protein kinases in vitro. p53 can apparently be phosphorylated by ATM, ATR, and DNAPK at Ser15; the phosphorylation impairs the ability of MDM2 to bind p53, promoting both the accumulation and functional activation of p53 in response to DNA damage. Chk2 and Chk1 can phosphorylate p53 at Ser20, enhancing its tetramerization, stability and activity. p53 is phosphorylated at Ser392 in vivo and by CAK in vitro. Phosphorylation of p53 at Ser392 is altered in human tumors and has been reported to influence the growth suppressor function, DNA binding and transcriptional activation of p53. p53 is phosphorylated at Ser6 and Ser9 by ck1d and ck1e both in vitro and in vivo. Phosphorylation of p53 at Ser46 is important in regulating the ability of p53 to induce apoptosis. In vivo phosphorylation of p53 at Ser33 by cdk7/cyclin H and in response to UV irradiation has been observed.

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

Product images:



Detection of activated p53 Recombinant C-terminal fragment of p53 was incubated with Casein Kinase II in the absence (1) or presence (2) of ATP. Proteins were separated by SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with Monoclonal p53 antibody (clone 9F4) (0.5 ug/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec).