

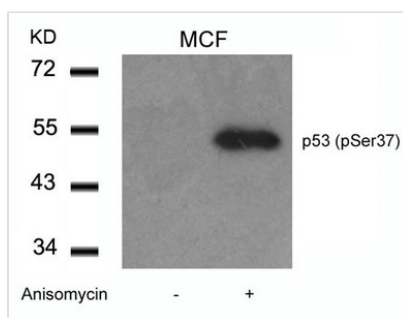


Phospho-TP53 (Ser37) Antibody

Product Code	CSB-PA445853
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P04637
Immunogen	Peptide sequence around phosphorylation site of serine 37 (L-P-S(p)-Q-A) derived from Human p53.
Raised In	Rabbit
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of p53 only when phosphorylated at serine 37.
Tested Applications	ELISA,WB,IF;WB:1:500-1:1000,IF:1:100-1:200
Relevance	p53 is a nuclear protein which plays an essential role in the regulation of cell cycle specifically in the transition from G0 to G1. It is found in very low levels in normal cells however in a variety of transformed cell lines in high amounts and believed to contribute to transformation and malignancy. The open reading frame of p53 is 393 amino acids long, with the central region (consisting of amino acids from about 100 to 300) containing the DNA-binding domain. This proteolysis-resistant core is flanked by a C-terminal end mediating oligomerization and an N-terminal end containing a strong transcription activation signal. p53 binds as a tetramer to a PBS (p53-Binding Site) and activates the expression of downstream genes that inhibit growth and/or invasion. p53 binds as a tetramer to a p53-binding site (PBS) and to activate the expression of adjacent genes that inhibit growth and/or invasion. Deletion of one or both p53 alleles reduces the expression of tetramers, resulting in decreased expression of the growth inhibitory genes Ito, A. et al. (2001) EMBO J. 20, 1331-1340. Sakaguchi, K. et al. (1998) Genes Dev. 12, 2831-2841. Solomon, J.M. et al. (2006) Mol. Cell. Biol. 26, 28-38.
Form	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography
Clonality	Polyclonal
Alias	Tumor suppressor p53; Phosphoprotein p53; Antigen NY-CO-13; TP53;
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	TP53



Image



Western blot analysis of extracts from MCF cells untreated or treated with Anisomycin using p53(Phospho-Ser37) Antibody.



Immunofluorescence staining of methanol-fixed Hela cells using p53(Phospho-Ser37) Antibody.

Product Modify

Phospho-Ser37