P53 (Phospho-Ser37) Antibody

#11098

Catalog Number: 11098-1, 11098-2

Amount: 50μg/50μl, 100μg/100μl

Swiss-Prot No. : P04637

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20℃/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human p53 around the phosphorylation site of serine 37 (L-P-Sp-Q-A).

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

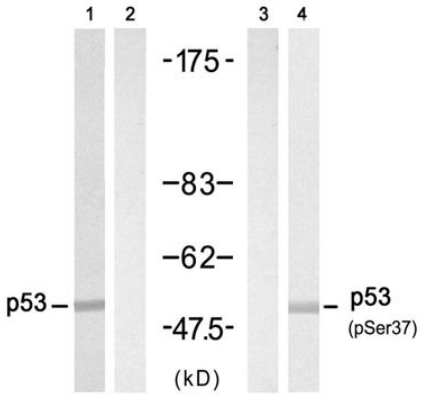
Specificity/Sensitivity: p53 (phospho-Ser37) antibody detects endogenous levels of p53 only when phosphorylated at serine 37

Reactivity: Human,

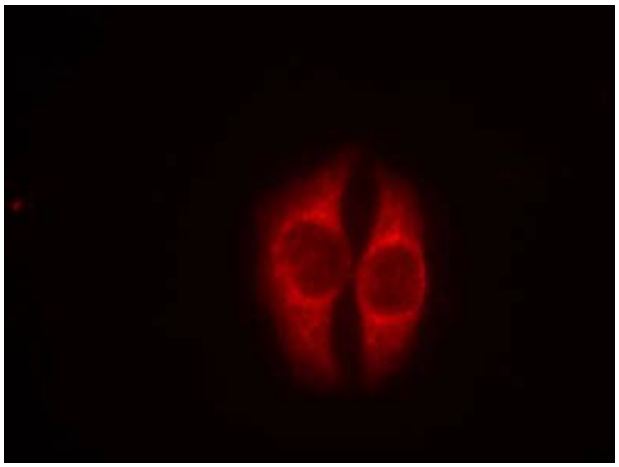
Applications:

Predicted MW: 53 kd

WB: 1:500~1:1000 IF:1:100~1:200



Western blot analysis of extract from HT-29 cell untreated or treated with Doxorubicin (1mM, 30min), using p53 (Ab-37) Antibody (#21089, Lane 1 and 2) and p53 (phospho-Ser37) antibody (#11098, Lane 3 and 4).



Immunofluorescence staining of methanol-fixed HeLa cells showing centrosome and nuclear staining
using p53 (phospho-Ser37) antibody (#11098).

Background :

Acts as a tumor suppressor in many tumor types; induces growth arrest or apoptosis depending on the physiological circumstances and cell type. Involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. One of the activated genes is an inhibitor of cyclin-dependent kinases. Apoptosis induction seems to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of Bcl-2 expression. Implicated in Notch signaling cross-over

References：

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.