



P53 (Ab-37)
Antibody

#21089

Catalog Number: 21089-1, 21089-2

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°C/1 year

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

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen

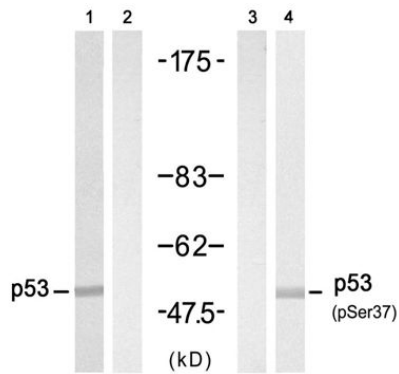
Specificity/Sensitivity p53 (Ab-37) antibody detects endogenous levels of total p53 protein

Reactivity: Human,

Applications:

Predicted MW: 53 kd

WB: 1:500~1:1000



Doxorubicin - - - +

Peptide - + - -

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)

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.