

30-1325: Anti-p53 (Phospho-Ser392) Monoclonal Antibody (Clone:FP3.2 [FPS392])

Clonality :	Monoclonal
Clone Name :	FP3.2 [FPS392]
Application :	WB
Reactivity :	Human
Gene :	TP53
Gene ID :	7157
Uniprot ID :	P04637
Format :	Purified
Alternative Name :	TP53,P53
Isotype :	Mouse IgG1
Immunogen Information :	KLH-conjugated phosphopeptide RHKKLMFKTEGPDS[P]D, corresponding to amino acids 378-393 of human p53.

Description

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.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Immunohistochemistry (paraffin sections): Standard ABC technique (DAB+), pretreatment: high temperature antigen retrieval (microwave, pressure cooker) in 10 mM citrate buffer pH 6.0 or 1 mM EDTA-NaOH buffer pH 8.0, recommended dilution: 10 µg/ml, incubation: 1 hour at RT; or overnight at 4°C, positive tissue: breast carcinoma with high level of wild-type p53.

Western blotting: recommended dilution: 1 µg/ml.

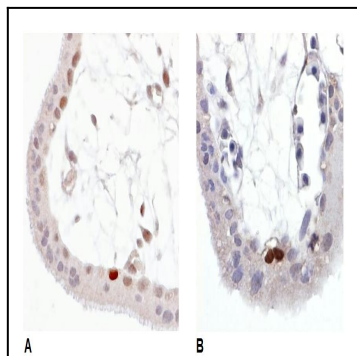


Figure-1: Immunohistochemistry staining of Wild-type p53 expressed in human trophoblast (paraffin-embedded sections). A - anti-p53 (total) B - anti-p53 (phospho Ser392) Note that some of total p53 positive nuclei are also FP3.2 (phospho p53) positive.

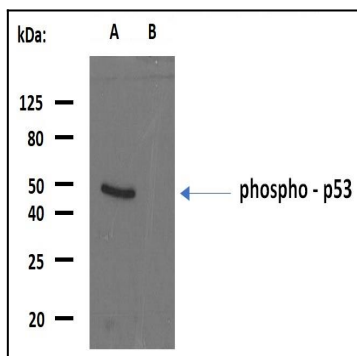


Figure-2: Western blotting analysis of phosphorylated human p53 using mouse monoclonal antibody FP3.2 (purified) in T47D cell line, which expresses p53. A) Phosphorylated p53 detected in T47D cell line. B) Absence of phosphorylated signal of p53 in dephosphorylated T47 cells (pretreated with calf intestinal alkaline phosphatase).