

Datasheet for ABIN94450
anti-p53 antibody (pSer392)



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4 Images

1 Publication

Overview

Quantity:	100 µg
Target:	p53 (TP53)
Binding Specificity:	pSer392
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Anti-Hu p53 (pS392) Purified
Immunogen:	KLH-conjugated phosphopeptide RHKKLMFKTEGPDS[P]D, corresponding to amino acids 378-393 of human p53.
Clone:	FP3-2 [FPS392]
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody FP3.2 [FPS392] reacts with human p53 tumour suppressor intracellular protein phosphorylated at CKII site (Ser 392).
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	p53 (TP53)
Alternative Name:	p53 (TP53 Products)
Background:	Tumor protein p53, 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.,BCC7, TRP53, TP53, LFS1
Gene ID:	7157
UniProt:	P04637
Pathways:	p53 Signaling , MAPK Signaling , PI3K-Akt Signaling , Apoptosis , AMPK Signaling , Chromatin Binding , ER-Nucleus Signaling , Positive Regulation of Endopeptidase Activity , Hepatitis C , Protein targeting to Nucleus , Autophagy , Warburg Effect

Application Details

Application Notes:	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.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

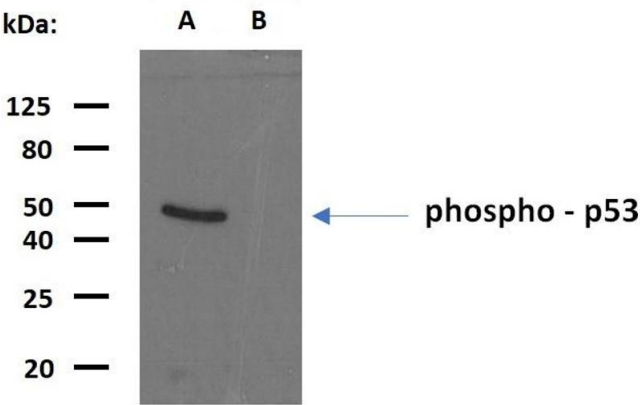
Publications

Product cited in:	Blaydes, Craig, Wallace, Ball, Traynor, Gibbs, Hupp: "Synergistic activation of p53-dependent transcription by two cooperating damage recognition pathways." in: Oncogene , Vol. 19, Issue 34, pp. 3829-39, (2000) (PubMed).
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Images

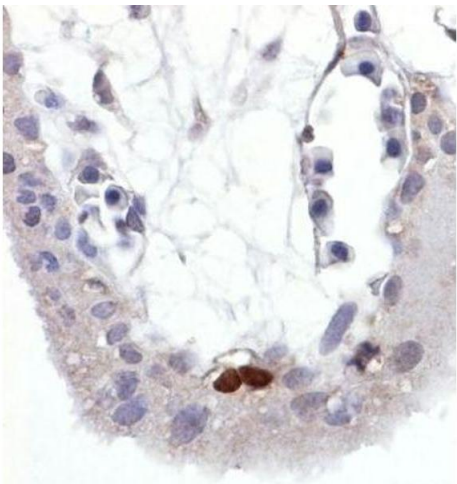
Western Blotting

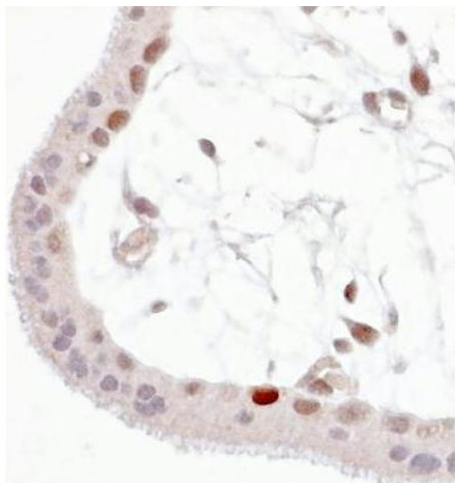
Image 1. Western blotting analysis of phosphorylated human p53 using mouse monoclonal antibody FP3.2 (purified) in T47D cell line, which expresses p53. A) Phosphorylated p53 detected in T47D cell line. B) Absence of phosphorylated signal of p53 in dephosphorylated T47 cells (pretreated with calf intestinal alkaline phosphatase).



Immunohistochemistry

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





Immunohistochemistry

Image 3. Immunohistochemistry staining of Wild-type p53 expressed in human trophoblast (paraffin-embedded sections). 1A – anti-p53 (total) 1B – anti-p53 (phospho Ser392) Note that some of total p53 positive nuclei are also FP3.2 (phospho p53) positive.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN94450.