

SM2157P

Monoclonal Antibody to TP53 / p53 pSer392 - Purified

Alternate names:	Cellular tumor antigen p53, NY-CO-13, Phosphoprotein p53, Tumor suppressor p53
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	Ser392 phosphorylation of p53 has been shown to occur following DNA damage. Phosphorylation of p53 at this site may be mediated the casein kinase 2 (CK2), and also be other phosphorylation mechanisms.
Uniprot ID:	P04637
NCBI:	NP_000537.3
GeneID:	7157
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	FP3-2
Immunogen:	Synthetic peptide RKKLMFKTEGPDS[P]D Remarks: Spleen cells from immunised BALB/c mice were fused with cells of a mouse SP-2 myeloma cell line
Format:	State: Liquid purified IgG fraction Purification: Affinity Chromatography on Protein A Buffer System: PBS Preservatives: 0.09% Sodium Azide
Applications:	Western Blot: For the detection of phosphoproteins, serine phosphatase inhibitors such as 10mM Sodium Fluoride should be added to the sample buffer. Milk or other casein-based blocking solutions are not recommended as casein is a phosphoprotein and its use can result in high background. Immunoprecipitation. Immunohistochemistry on Paraffin Sections: This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. <i>Recommended Positive Control:</i> Colon or breast carcinoma. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises p53, specifically binding only to p53 phosphorylated at the Ser392 residue. In immunohistology this antibody generally stains 5-10% of cells labelled with antibodies specific for non-phosphorylated p53. Species: Human. Other species not tested.

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Blaydes JP, Hupp TR. DNA damage triggers DRB-resistant phosphorylation of human p53 at the CK2 site. *Oncogene*. 1998 Aug 27;17(8):1045-52. PubMed PMID: 9747884.