

## Mouse Monoclonal Antibody to

# p53 (phospho-Ser 392)

## clone 9F4

**Order No.:** 0017-100/p53-9F4

**Size (µg)** 100

**Lot No.:** 0017S



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Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human	WB, ELISA	53 kDa	none	phosphoserine 392 ..T - E - G - P - D - pS - D..	phosphopeptide conjugated to KLH

### Background and Specificity:

p53 is a tumor suppressor protein that is mutated in >50% of human tumors. Wild type p53 inhibits proliferation of transformed cells. The transcriptional activity of p53 is induced by DNA damage, leading to growth arrest or apoptosis. p53 is phosphorylated *in vivo* by several kinases, such as DNA-dependent protein kinase I (DNA-PKI), protein kinase C (PKC), MAP kinase, casein kinase I or II. Phosphorylation at serine 392 alters the transcriptional activity of p53.

**Mab p53-9F4** specifically recognizes activated p53 phosphorylated at serine 392. The antibody does not crossreact with the non-phosphorylated form of p53 nor with unrelated serine-phosphorylated proteins. Mab p53-9F4 is particularly suited for Western blot and ELISA application.

### Related Products

**Purification:** The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.

**Formulation:** lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.

**Reconstitution:** Reconstitute with 1 ml H<sub>2</sub>O (15 min, RT).

**Stability:** For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

**Avoid repeated freeze / thaw cycles.**

**Positive Control:** none

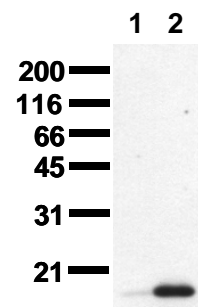
**Immunoblotting:** 1 µg/ml for HRPO/ECL detection  
**Recommended blocking buffer:** BSA/Tween 20 based blocking and blot incubation buffer.

**DO NOT USE MILK OR CASEIN FOR BLOCKING!**

**Immunoprecipitation:** ND

**Immunocytochemistry:** ND

**ELISA:** use at 0.05 µg/ml



**Detection of activated p53**  
 Recombinant C-terminal fragment of p53 was incubated with Casein Kinase II in the absence (1) or presence (2) of ATP. Proteins were separated by SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab p53-9F4 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

**All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.**