## Mouse Monoclonal Antibody to

# p53 (phospho-Ser 392)

# clone 9F4

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

**Size (µg)** 100

**Lot No.:** 0017S

**www.nanotools.de**

**orders & support:**
email: info@nanotools.de
phone: +49-7641-455 670
fax: +49-7641-455 671

02/160307F

| Isotype | Species Reactivity | Applications | Mol. Weight | Ref.Cell Line | Epitope | Immunogen |
|---|---|---|---|---|---|---|
| IgG1 | human | WB, ELISA | 53 kDa | none | phosphoserine 392<br>..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 $H_2O$ (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.**

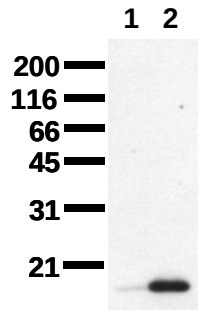
**Positive Control:** none

**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 separarted 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).