

11-114-C025

Monoclonal Antibody to p53 Purified Antibody (0.025 mg)

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| Clone: | BP53-12 |
| Isotype: | Mouse IgG2a |
| Specificity: | The antibody BP53-12 recognizes defined epitope (aa 16-25) on human p53, a 50 kDa tumour suppressor found in increased amounts in a wide variety of transformed cells; it is frequently mutated or inactivated in many types of cancer. |
| Immunogen: | Bacterially expressed full-length wild-type p53 |
| Species Reactivity: | Human, Non-Human Primates |
| Application: | Immunoprecipitation Western Blotting <i>Recommended dilution:</i> 1-2 µg/ml, overnight in 4°C <i>Positive control:</i> RAMOS human lymphoma cell line <i>Sample preparation:</i> Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing SDS-PAGE sample buffer. <i>Application note:</i> Non-reducing conditions. SDS-PAGE (12% separating gel). Immunohistochemistry (paraffin sections) Immunocytochemistry ELISA |
| Purity: | > 95% (by SDS-PAGE) |
| Purification: | Purified from ascites by precipitation methods. |
| Concentration: | 1 mg/ml |
| Storage Buffer: | Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 |
| Storage / Stability: | Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | 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. |

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

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