



Mouse (monoclonal) Anti-Human p53 Protein Unconjugated

PRODUCT ANALYSIS SHEET

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| Catalog Number: | AHO0152 |
| Lot Number: | See product label |
| Quantity/Volume: | 100 µg/0.5 mL |
| Clone Number: | DO-1 |
| Isotype: | IgG2a (mouse) |
| Form of Antibody: | Purified immunoglobulin in 10mM phosphate buffered saline, pH 7.4, with 0.2% bovine serum albumin. |
| Preservation: | 0.09% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.) |
| Purification: | Purified from ascites by Protein A chromatography. |
| Immunogen: | Recombinant human wild type p53 protein expressed in <i>E. coli</i> . |
| Myeloma/Fusion Partner: | Produced by fusion between BALB/c splenocytes and mouse myeloma X63Ag8.653 cells. |
| Specificity: | This monoclonal antibody recognizes a protein of 53 kDa, identified as the product of p53 tumor suppressor gene. This antibody reacts with mutant as well as wild type forms of human p53. The epitope for this antibody maps within the N-terminus (aa 11-25) of p53. This antibody has been used successfully in the immunoprecipitation of p53 complexed with simian virus 40 (SV40) large T antigen. |
| Species Reactivity: | Human, monkey and cow. Reacts weakly with mouse and rat. Other species were not tested. |
| Applications: | This antibody is suitable for use in flow cytometry, immunoprecipitation, Western blotting, ELISA, supershift gel assay and immunohistochemistry with cryostat or formalin-fixed/paraffin-embedded tissues. Staining of formalin/paraffin tissues requires boiling the tissue sections in 10 mM citrate buffer, pH 6.0, for 20 minutes followed by cooling at room temperature for 20 minutes. |
| Suggested Working Dilutions: | For immunoprecipitation, use 10 µL/mg of cell lysate; for Western blotting, use 1:500-1:1000 dilution, and for immunohistology, 1:100-1:200 is recommended. The optimal antibody concentration should be determined for each specific application. |
| Recommended Positive Control: | CEM human leukemia cells for Western blotting. For immunohistochemistry, about 50% of human breast carcinomas are p53 positive, especially those lacking estrogen and/or progesterone receptor, or with high proliferation index. |
| Storage: | Store at 2-8°C. |

For Research Use Only. CAUTION: Not for human or animal therapeutic or diagnostic use.

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PI AHO0152

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Expiration Date: See product label.

References: Haapasalo, H., *et al.* (1993) Aberrant p53 expression in astrocytic neoplasms of the brain: association with proliferation. *Am. J. Pathol.* 142(5):1347-1351.














Ogunbiyi, O.A., *et al.* (1993) Immunohistochemical analysis of p53 expression in anal squamous neoplasia. *J. Clin. Pathol.* 46(6):507-512.

Govender, D., *et al.* (1998) p53 protein expression in nephroblastomas: a predictor of poor prognosis. *Br. J. Cancer* 77(2):314-318.

Backe, J., *et al.* (1997) p53 protein in endometrial cancer is related to proliferative activity and prognosis but not to expression of p21 protein. *Int. J. Gyn. Path.* 16:361-368.

Vojtesek, B., *et al.* (1992) An immunochemical analysis of the human nuclear phosphoprotein p53. New monoclonal antibodies and epitope mapping using recombinant p53. *J. Immunol. Meth.* 151:237-244.

Explanation of symbols

| Symbol | Description | Symbol | Description |
|---|---|---|--|
|  | Catalogue Number |  | Batch code |
|  | Research Use Only |  | <i>In vitro</i> diagnostic medical device |
|  | Use by |  | Temperature limitation |
|  | Manufacturer |  | European Community authorised representative |
|  | Without, does not contain |  | With, contains |
|  | Protect from light |  | Consult accompanying documents |
|  | Directs the user to consult instructions for use (IFU), accompanying the product. | | |

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