



**Mouse (monoclonal)
Anti-p53 Protein
Unconjugated**

PRODUCT ANALYSIS SHEET

Catalog Number:	AHO0112
Lot Number:	See product label
Quantity/Volume:	100 µg/0.5 mL
Clone Number:	PAb 240
Isotype:	IgG1 (mouse)
Form of Antibody:	Purified immunoglobulin in 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 G chromatography.
Immunogen:	Murine p53-β-galactosidase fusion protein containing p53 sequence from amino acid 14-289.
Specificity:	This monoclonal antibody recognizes a protein of 53 kDa which is identified as the product of p53 tumor suppressor gene. It reacts with only certain mutant p53 protein under non-denaturing condition in immunoprecipitation but reacts with both mutant and wild form of p53 under denaturing condition in Western blotting. Its epitope maps within the middle region (aa 212-217) of p53. In frozen node-negative breast cancers, immunohistochemical staining with a cocktail of Pab240/1801 was reported to be most strongly associated with overall survival compared with either antibody alone or with other antibodies directed toward p53.
Species Reactivity:	Human, mouse, rat, hamster, monkey, cow, pig, and chicken. Other species were not determined.
Applications:	This antibody is suitable for use in flow cytometry, immunoprecipitation, Western blotting and immunohistochemistry with cryostat, methacarn-fixed/paraffin embedded, or formalin-fixed/paraffin embedded tissue sections. Staining of formalin-fixed tissues requires boiling tissue sections in 1 mM EDTA, pH 8, for 10-20 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 1:200-1:400 dilution, and for immunohistology 1:50-1:100 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 long term storage, aliquot into small volumes and store at -20°C. Avoid repeated freeze-thaw cycles to avoid denaturing the antibody.

This product is for research use only. Not for use in diagnostic procedures.

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Expiration Date:

Expires one year from date of receipt when stored as instructed.

References:

Banks, L., et al. (1986) Isolation of human-p53-specific monoclonal antibodies and their use in the studies of human p53 expression. *Eur. J. Biochem.* 159:529-534.

Wang X.W. and C.C. Harris (1997) p53 tumor-suppressor gene: clues to molecular carcinogenesis. *J. Cell Physiol.* 173:247-255.

Albaric, O., et al. (2001) Immunohistochemical expression of p53 in animal tumors: a methodological study using four anti-human p53 antibodies. *Histol. Histopathol.* 16(1):113-121.

Pezzella F., et al. (1994) Antibody for detecting p53 protein by immunohistochemistry in normal tissues. *J. Clin. Pathol.* 47(7):592-596.

Flamini G, et al. (1997) Immunohistochemical analysis of p53 protein in transplant recipients with Kaposi's sarcoma. *J. Cancer Res. Clin. Oncol.* 123(4):240-242.

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