## PERFORMANCE DATA SHEET

1845

## Monoclonal anti-human p53(mutant)/Biotin\*

*mAb name/Clone:* PAb240 *Isotype:* Mouse IgG1κ

Immunogen: Murine p53 expressed in E. coli

**CATALOG#: 227-030 QUANTITY: 100 µg** 

**CONCENTRATION: 1.0 mg/ml** 

**INFORMATION:** Human p53 is a tumor suppressor protein which is mutated in many cancers. p53 expression has been linked to apoptosis caused by DNA-damaging agents and may have a role in cell-mediated cytotoxicity. Antibody PAb240 recognizes mutant p53 epitope 156-214 in cells and denatured wild type p53 in Western Blots. *References:* J.V. Gannon, et al, (1990) EMBO J 9: 1595-1602. C.C. Harris and M. Hollstein (1993) New Engl J Med 329: 1318-1327. H. Selter & M. Montenarch (1994) Int J Biochem 26: 145-154. Mahdi, et al, (1995) Biol Cell 84: 175-185. M.L. Smith and A.J. Fornace, Jr (1996) Am J Pathol 148: 1019-1022.

**STORAGE CONDITIONS:** *Store at 2 - 5<sup>o</sup>C*. Freeze/thawing not recommended.

**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

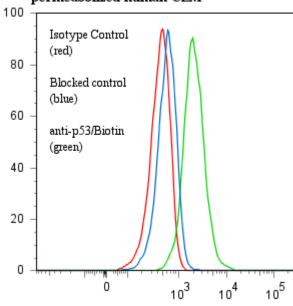
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

**PERFORMANCE:** Cultured **CEM** human tumor cells were fixed with 2% buffered formaldehyde after which

they were washed two times. Subsequent reagent incubations and wash steps were done using a buffer containing 0.3% Saponin to permeabolize cells. Five x  $10^5$  cells per tube were incubated 45 minutes on ice with 80  $\mu$ l of anti-p53/Biotin at 5  $\mu$ g/ml. Cells were washed twice and incubated with  $2^0$  reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.70 log<sub>10</sub> fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010) at a similar concentration. Binding was blocked when cells were pre incubated with 20  $\mu$ l of 0.5 mg/ml anti-p53 antibody (Catalog #227-020).

Binding of anti-p53/Biotin +SA/PE to fixed permeabolized human CEM



\*This Product is intended for Laboratory Research use only.