

PERFORMANCE DATA SHEET

1845

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

mAb name/Clone: PAb240

Isotype: Mouse IgG1 κ

Immunogen: Murine p53 expressed in E. coli

CATALOG#: 227-030

QUANTITY: 100 μ g

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°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% NaN₃ (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 permeabilize cells. Five x 10⁵ cells per tube were incubated 45 minutes on ice with 80 μ l of anti-p53/Biotin at 5 μ g/ml. Cells were washed twice and incubated with 2^o 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 log₁₀ 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 μ l of 0.5 mg/ml anti-p53 antibody (Catalog #227-020).

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

