Description:
p53 Protein (CM1) rabbit polyclonal antibody


Epitope: Not determined.

Presentation: Lyophilized rabbit serum containing 15mM sodium azide. Reconstitute with 0.2 ml of distilled water.

Species cross-reactivity: Human and rat.

Storage Conditions: Keep unopened vial at 2 - 8 °C for 1 year. Once opened it is recommended that the stock solution be aliquoted and quick frozen and stored at -20 °C. Do not repeatedly freeze/thaw.

Applications:

Immunohistochemistry
Paraffin sections: Antigen unmasking recommended in some cases.
Frozen sections: Yes
Working Dilution*: 1:50 - 1:100 for 1 hr. at 25 °C or 1:200 - 1:1000 for overnight 4 °C.
Positive Control: A high percentage of breast and colonic carcinomas show labeling for p53 protein. Nuclear staining pattern.

Western blotting
Working Dilution*: 1:500 - 1:1000
Positive Controls: HBL 100 cells
* Recommended dilutions using VECTASTAIN® Elite® ABC Kits.

Functional Aspects:
p53 protein is crucial to normal regulation of cell growth and is a suppressor of tumor cell proliferation. The gene encoding for p53 is located on chromosome 17p, a frequent site of allelic loss in many tumors. A high proportion of breast and colon carcinomas are positive for p53 and this expression correlates with poor prognosis in breast cancer. This antibody recognizes both wild type and mutant forms of p53 protein under denaturing and non-denaturing conditions.

Selected References