p53 Polyclonal Antibody

ORDERING INFORMATION

Catalog No.: 3347

Size: 100ug peptide affinity-purified antibody in PBS, pH 7.4, 50% glycerol, 0.09% sodium azide.

BACKGROUND

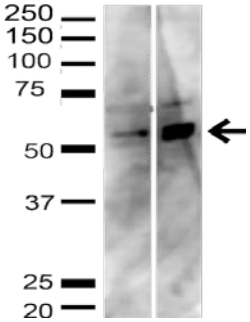
Tumor protein p53, also known as p53, functions as a tumor suppressor, and, as such, p53 has been described as "the guardian of the genome" because of its role in preventing genome mutations. The name p53 describes the apparent molecular mass of the protein as observed in SDS-PAGE analysis. The actual mass of full-length p53, based on the sum of masses of the amino acid residues, is 43.7kDa. The difference is due to the number of proline residues in the protein which slow its migration on SDS-PAGE, thus making it appear heavier than it actually is. The *TP53* gene is the most frequently mutated gene (>50%) in human cancer.

SPECIFICATION SUMMARY

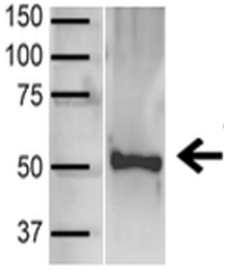
Antigen: Synthetic peptide corresponding to amino acids at the C-terminus of human p53.
Accession no.: NP_000537.3, P04637
Gene ID: 7157
Host Species: Rabbit
Specificity: This antibody recognizes human p53.

APPLICATIONS

Immunoblotting: use at 1ug/ml. A band of ~53kDa is detected.

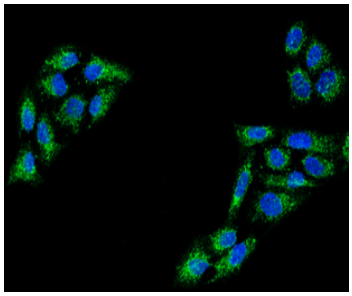


Detection of p53 in HeLa (left) and 293T (right) cell lysates with #3347 at 1ug/ml.



Detection of p53 in A431 cell lysate with #3347 at 1ug/ml.

Immunofluorescence: use at 10ug/ml.



Detection of p53 in formalin-fixed HeLa cells with #3347 at 10ug/ml. DAPI (blue) nuclear stain, FITC (green) p53 stain.

These are recommended concentrations. Endusers should determine optimal concentrations for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C.

For in vitro investigational use only. Not intended for therapeutic or diagnostic applications.

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