



PRODUCT DATA SHEET

Product: Anti-p53 pAb

Cat. No.: PC-057 (250 µg)

Background:

p53 is a 53 kDa transcription factor that can inhibit cell cycle progression or induce apoptosis in response to stress or DNA damage. Disruption of the p53 signalling pathway through various mechanisms is the most common alteration in human cancer, occurring in over half of all tumors. The p53 protein is short lived and expressed at low levels in normal cells but accumulates and/or is activated in cells that have undergone genotoxic damage or oncogene activation. Many tumor derived and transformed cell lines express elevated levels of mutant p53 protein.

Specificity:

Cross-reacts with human (wild-type and mutant), rat (wild-type and mutant), mouse (wild-type and mutant).

Ig Isotype:

Sheep Ig

Immunogen:

GST p53 fusion protein containing amino acids 1-393 of human p53.

Format:

250 µg of purified polyclonal antibody at ~1 mg/mL. Provided as a 0.2 µm sterile filtered solution in phosphate buffered saline with 0.08% sodium azide.

Storage:

Store at -20°C long term. Stable for at least 1 year when stored at -20°C. Aliquot to avoid freeze/thaw cycles.

Applications and Suggested Dilutions:

- Western blot: Use at 1-10 µg/mL.
- Immunoprecipitation
- Immunohistochemistry:
Formalin-fixed, paraffin-embedded tissue

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.