

PRODUCT DATA SHEET

Product: Anti-p53, human, Clone PAb 1801

Cat. No: MC-534 (100 µg)

Description:

p53 is a tumor suppressor gene expressed in a wide variety of tissue types and is involved in regulating cell growth, replication and apoptosis. It binds to mdm2, SV40 T antigen and human papilloma virus E6 protein p53 senses DNA damage and possibly facilitating repair. Mutation involving p53 is found in a wide variety of malignant tumors, including breast, ovarian, bladder, colon, lung, and melanoma.

Specificity:

Recognizes only the human p53 tumor suppressor oncoprotein. Reacts with both the wild type and mutant forms of human p53.

Positive control: SKBR-3 cells or Colon carcinoma.

Species Reactivity:

Human, other species not tested.

Ig Isotype: IgG1

Immunogen:

Human p53-β-galactosidase fusion protein.

Epitope: aa 32-79.

Format:

500 µl of 200 µg/ml antibody purified from ascites fluid by Protein G chromatography. Prepared in 10 mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide.

Storage and Stability:

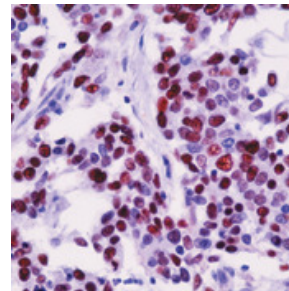
Stable for 24 months when stored at 2-8°C.

Applications and Suggested Dilutions:

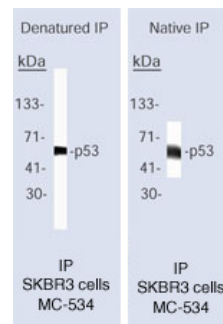
- Flow Cytometry
- Immunohistochemistry: (Frozen or formalin-fixed, paraffin-embedded tissues and cells)- Use a 2-4 µg/ml for 30 min at RT. Staining of formalin/paraffin tissue REQUIRES boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.

- Immunoprecipitation: (Native & Denatured) Use 2 µg/mg protein lysate. Use Protein G.
- Western blotting: Use 0.5 - 1 µg/ml for 2 hours at RT.

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



Formalin-fixed, paraffin-embedded breast carcinoma stained with MC-534 using peroxidase-conjugate and AEC chromogen. Note nuclear staining of tumor cells.



References:

1. Banks, L. et al. (1986). Eur. J. Biochem. 159: 529-34.
2. Cattoretti, G. et al. (1988). Int. J. Cancer 41: 178-83.

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.