



PRODUCT DATA SHEET

Product: Anti-p53, human mAb, clone PAb 122

Cat. No.: MC-537 (100 µg)

Background:

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 facilitates repair. Mutation involving p53 is found in a wide variety of malignant tumors, including breast, ovarian, bladder, colon, lung, and melanoma.

Specificity:

Successfully used to immunoprecipitate p53 oncoprotein complexed with simian virus 40 (SV40) large T antigen. Reportedly, the most ATPase-active form of T was precipitated by this antibody.

Molecular Weight of Antigen:

53 kDa

Epitope:

aa 370-378

Species Reactivity:

Human, monkey, mouse, rat, and hamster, others not tested.

Ig Isotype:

Mouse IgG_{2b}/k

Immunogen:

SV40-transformed mouse B4 cells

Cellular Localization:

Nuclear

Positive Control:

MDA231 cells

Format:

500 µL of 200 µg/mL monoclonal antibody in 10 mM PBS, pH 7.4, with protein stabilizer and 0.09% sodium azide. Purified from ascites fluid by Protein A chromatography.

Storage:

Store at 4 °C.

Applications and Suggested Dilutions:

- Flow cytometry
- Immunofluorescence
- Immunoprecipitation: (Denatured verified)
Use 2 µg/mg protein lysate. Use Protein A.
- Western blot: Use at 2-4 µg/mL at RT for 2 h.

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.