# Datasheet

Mouse mAb to **p53**
Clone **Bp53-12**
Isotype **IgG2a-λ**

## Source

A BALB/c mouse was immunized with recombinant human p53 protein.
Fusion partner: P3-X63-Ag8.653.

## Specifications

Bp53-12 reacts with an N-terminal epitope (aa 16-25) of both wild-type and mutated p53. This epitope is revealed in tissue sections only after formalin fixation. Mutation and/or allelic loss of p53 is one of the causes of a variety of mesenchymal and epithelial tumors. p53 Localizes in the nucleus, but is detectable at the plasma membrane during mitosis and when certain mutations modulate cytoplasmic/nuclear distribution.

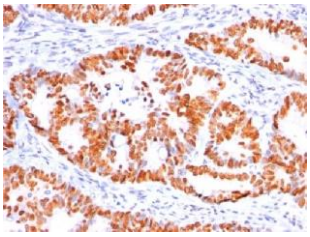

**Figure 1:** Colon carcinoma stained with BP53-12 (paraffin)

## Species reactivity

Positive: chicken, dog, hamster, human, monkey.
Negative: mouse, rat.

## Applications

Bp53-12 is not suitable for frozen sections. Only formalin fixed paraffin embedded tissue section should be used. Bp53-12 also works well in fluorescence tests and Western blots.

| Flow cytometry | Frozen sections | Immunofluorescence | Paraffin sections | Western blot |
|---|---|---|---|---|
| + | — | + | Citrate | + |

## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02 % sodium azide.
Stored at 4°C- 8°C, shelf life is at least 24 months after purchase.

## Dilution advice

- Flow Cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunoblotting (1 µg/ml for 2h at RT).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (formalin-fixed: 1-2 µg/ml for 30 min at RT; requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes).

## Positive control

Paraffin sections of normal human breast. MCF7 or A431 cell lysates.

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## References


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- Hollstein et al, *Science* 253: **49-53**: (1991).
- Lane, D.P, *Nature* 358: **15-16**: (1992).
- Donehower et al, *Biochemic. Biophys. Acta* **1155**: 181-182, (1993).