

## 10-1053: Monoclonal Antibody to p53 (Clone BP53-12)

|                                |  |
|--------------------------------|--|
| <b>Clonality :</b>             | Monoclonal   |
| <b>Clone Name :</b>            | BP53-12  |
| <b>Application :</b>           | IHC, WB  |
| <b>Reactivity :</b>            | Human  |
| <b>Gene :</b>                  | TP53   |
| <b>Gene ID :</b>               | 7157   |
| <b>Uniprot ID :</b>            | P04637   |
| <b>Format :</b>                | Purified   |
| <b>Alternative Name :</b>      | TP53, P53  |
| <b>Isotype :</b>               | Mouse IgG2a Kappa  |
| <b>Immunogen Information :</b> | Recombinant human wild-type p53 protein was used as immunogen. |

### Description

Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild form of p53 under denaturing and non-denaturing conditions. 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. Positive nuclear staining with p53 antibody has been reported to be a negative prognostic factor in breast carcinoma, lung carcinoma, colorectal, and urothelial carcinoma. Anti-p53 positivity has also been used to differentiate uterine serous carcinoma from endometrioid carcinoma as well as to detect intratubular germ cell neoplasia. Mutations involving p53 are found in a wide variety of malignant tumors, including breast, ovarian, bladder, colon, lung, and melanoma.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 100 µg  |
| <b>Purification :</b>      | Protein G Chromatography  |
| <b>Content :</b>           | 25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.                |
| <b>Storage condition :</b> | Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles. |

### Application Note

Western blot analysis: 1-2 µg/ml; Immunohistochemical analysis: 1:100-1:200

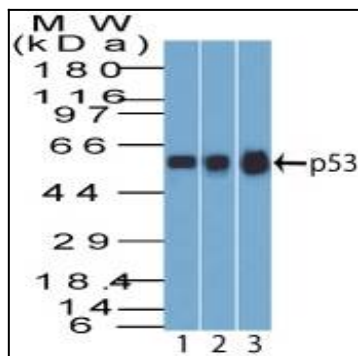


Fig: 1 Western blot analysis of p53. Anti p53 antibody (Clone: BP53-12) was used at 1  $\mu$ g/ml on 1) A431, 2) MCF7, 3) HEK293 lysates.

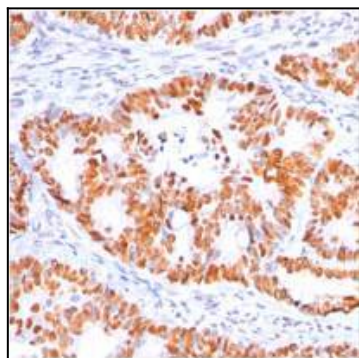


Fig: 2 Immunohistochemical analysis of p53 in human colon carcinoma using p53 antibody (Clone: BP53-12) at 1:100 dilution.