

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

Clonality :	Monoclonal
Clone Name :	BP53-12
Application :	IHC, WB
Reactivity :	Human
Gene :	TP53
Gene ID :	7157
Uniprot ID :	P04637
Format :	Purified
Alternative Name :	TP53, P53
Isotype :	Mouse IgG2a Kappa
Immunogen Information :	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

Amount :	100 µg
Purification :	Protein G Chromatography
Content :	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.
Storage condition :	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

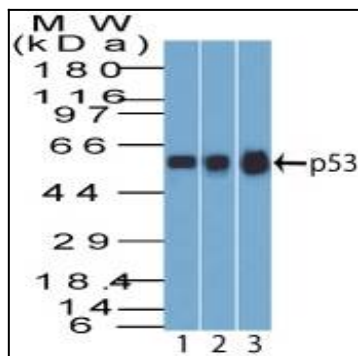


Fig: 1 Western blot analysis of p53. Anti p53 antibody (Clone: BP53-12) was used at 1 μ g/ml on 1) A431, 2) MCF7, 3) HEK293 lysates.

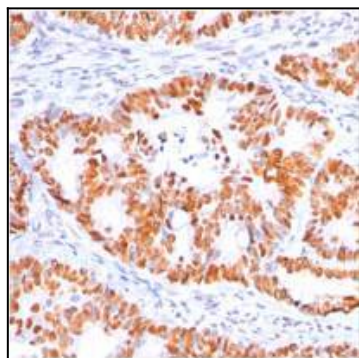


Fig: 2 Immunohistochemical analysis of p53 in human colon carcinoma using p53 antibody (Clone: BP53-12) at 1:100 dilution.