Product datasheet

Anti-P53/TP53 Antibody (Clone#BP53-12)

Catalog Number: *BM0101*

BOSTER
antibody and ELISA experts
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Building C21, 3rd and 4th floors, Optics Valley Biomedical Accelerator, Wuhan East Lake High-tech Development Zone
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Basic Information

Product Name	Anti-P53/TP53 Antibody (Clone#BP53-12)
Gene Name	TP53
Source	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Species Reactivity	human
Tested Application	WB,IHC,ICC/IF
Contents	200ug/ml antibody with PBS， 0.02% NaN3 , 1mg BSA and 50% glycerol.
Immunogen	Recombinant human wild-type p53 protein.
Concentration	200ug/ml
Purification	Ascites
Observed MW	53 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

The p53 tumor antigen is found in increased amounts in a wide variety of transformed cells. The protein is also detectable in many actively proliferating, nontransformed cells, but it is undetectable or present at low levels in resting cells. This protein induces cell cycle arrest or apoptosis in response to sublethal or severe DNA damage, respectively, by differential transcription of target genes and through transcription-independent apoptotic functions. The p53 protein contains 393 amino acids. Human p53 tumour antigen is Locatedto band 17p13. p53 mutations are common in pancreatic cancer and are absent in chronic pancreatitis.

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Reference

Anti-P53/TP53 Antibody (Clone#BP53-12)被引用在30文献中。

Selected Validation Data

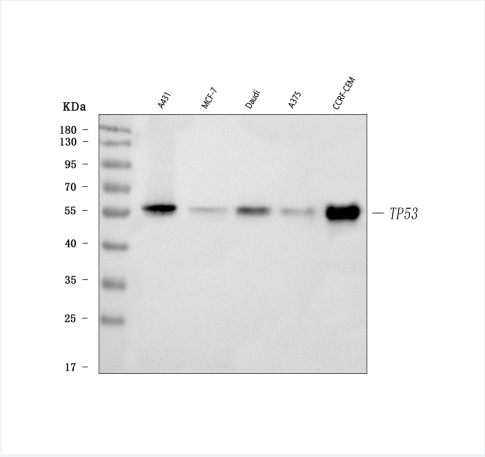

Figure 1. Western blot analysis of anti- TP53 antibody (BM0101). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: A431 whole cell lysates,
Lane 2: MCF-7 whole cell lysates,
Lane 3: Daudi whole cell lysates,
Lane 4: A375 whole cell lysates,
Lane 5: CCRF-CEM whole cell lysates.
Use mouse anti- TP53 1:1000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for TP53 at approximately 53KD. The expected band size for TP53 is at 53KD.

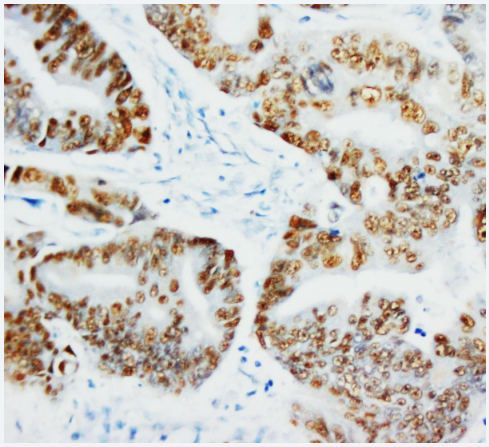

Figure 2. IHC analysis of p53 using anti-p53 antibody (BM0101).
p53 was detected in paraffin-embedded section of human mammary cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml mouse anti-p53 Antibody (BM0101) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1021) with DAB as the chromogen.

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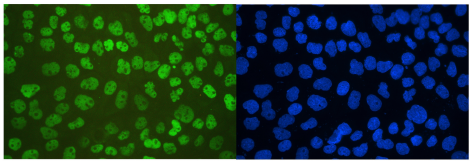

Figure 3. IF analysis of p53 using anti- p53 antibody (BM0101). p53 was detected in immunocytochemical section of A431 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2µg/mL mouse anti- p53 Antibody (BM0101) overnight at 4°C. DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.