p53 (phospho-Thr81) polyclonal antibody

Catalog: AP0104 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

p53, a DNA-binding, oligomerization domain and transcription activation domain-containing tumor suppressor, upregulates growth arrest and apoptosisrelated genes in response to stress signals, thereby influencing programmed cell death, cell differentiation and cell cycle control mechanisms. p53 localizes to the nucleus, yet can be chaperoned to the cytoplasm by the negative regulator MDM2, an E3 ubiquitin ligase that is upregulated in the presence of active p53, where MDM2 poly-ubiquitinates p53 for proteasome targeting. p53 fluctuates between latent and active (DNA-binding) conformations and is differentially activated through posttranslational modifications including phosphorylation and acetylation.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2.

Molecular Weight:

~ 53 kDa

Swiss-Prot:

P04637

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB:1:500~1:1000

IHC:1:50~1:200

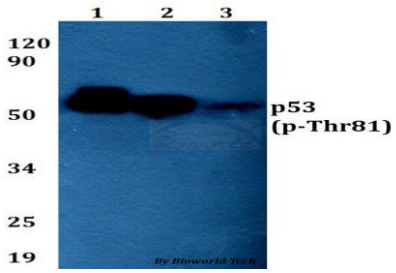
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

p-p53 (Thr81) polyclonal antibody detects endogenous levels of p53 protein only when phosphorylated at Thr81

DATA:

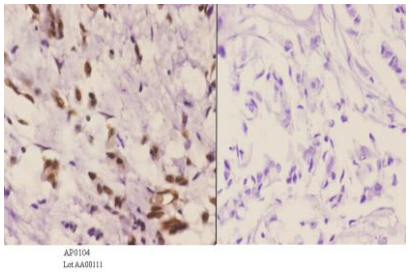


Western blot (WB) analysis of p-p53 (Thr81) polyclonal antibody at 1:500 dilution

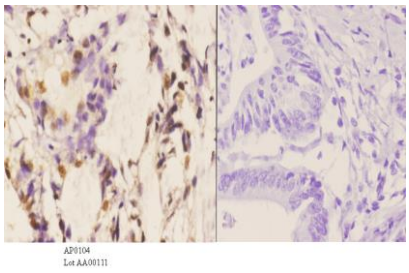
Lane1:A549 cell lysate treated with UV(4h)

Lane2:NIH-3T3 cell lysate treated with UV(4h)

Lane3PC12 cell lysate treated with UV(4h)



Immunohistochemistry (IHC) analyzes of p-p53(Thr81) pAb in paraffin-embedded human breast carcinoma tissue at 1:50.showing nucleus staining. Negative control (the right)Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.



Immunohistochemistry (IHC) analyzes of p-p53(Thr81) pAb in paraffin-embedded human colon carcinoma tissue at 1:50.showing nucleus staining. Negative control (the right)Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.

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Note:	For research use only, not for use in diagnostic procedure.

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