p53 (phospho-S315) polyclonal antibody

Catalog: BS4145 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:

~ 53,43 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:

IHC: 1:50~1:200

IP: 1:50~1:200

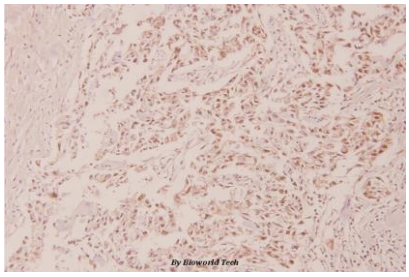
Storage&Stability:

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

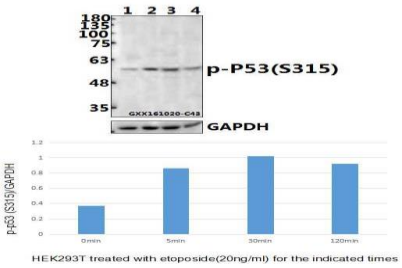
Specificity:

p-p53 (S135) polyclonal antibody detects endogenous levels of p53 protein only when phosphorylated at Ser315

DATA:



Immunohistochemistry (IHC) analyzes of p-p53 (S315) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.



Western blot (WB) analysis of p-p53 (S315) pAb at 1:500 dilution

Lane1:HEK293T whole cell lysate(40ug)

Lane2:HEK293T treated with Etoposide(20ng/ml) for 5 minutes whole cell lysate

Lane3:HEK293T treated with Etoposide(20ng/ml) for 30 minutes whole cell lysate

Lane4:HEK293T treated with Etoposide(20ng/ml) for 2 hours whole cell lysate

Note:

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

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