

p53 (Acetyl-K386) polyclonal antibody

Catalog: BS64033

Host: Rabbit

Reactivity: Human, Rat

BackGround:

p53, a DNA-binding, oligomerization domain- and transcription activation domain-containing tumor suppressor, upregulates growth arrest and apoptosis-related 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. MDM2 is an E3 ubiquitin ligase that is upregulated in the presence of active p53, where it poly-ubiquitinates p53 for proteasome targeting. p53 fluctuates between latent and active DNA-binding conformations and is differentially activated through post-translational modifications, including phosphorylation and acetylation. Mutations in the DNA-binding domain (DBD) of p53, amino acids 110-286, can compromise energetically-favorable association with cis elements and are implicated in several human cancers.

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

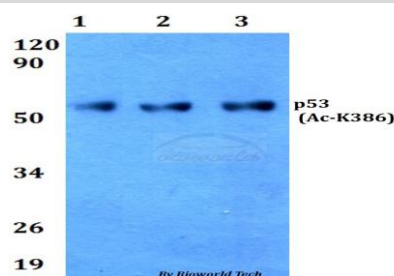
Storage&Stability:

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

Specificity:

Ac-p53 (K386) polyclonal antibody detects endogenous levels of human p53 protein only when acetylated at Lys386. This antibody also recognizes mouse and rat p53 protein when acetylated at the corresponding residues.

DATA:



Western blot (WB) analysis of p53 (Acetyl-K386) polyclonal antibody at 1:500 dilution

Lane1: HEK293T cell lysate treated with colchicine (0.2ng/ml, 24h)

Lane2: Hela cell lysate treated with colchicine (0.2ng/ml, 24h)

Lane3: H9C2 cell lysate treated with colchicine (0.2ng/ml, 24h)

Note:

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

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