

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



p-p53 (S20) Peptide

Cat No.: BS5027P

Background

p53 plays a major role in the cellular response to DNA damage and other genomic aberrations. The activation of p53 can lead to either cell cycle arrest and DNA repair, or apoptosis. p53 is phosphorylated at multiple sites in vivo and by several different protein kinases in vitro. p53 can apparently be phosphorylated by ATM, ATR, and DNAPK at Ser15; the phosphorylation impairs the ability of MDM2 to bind p53, promoting both the accumulation and functional activation of p53 in response to DNA damage. Chk2 and Chk1 can phosphorylate p53 at Ser20, enhancing its tetramerization, stability and activity. p53 is phosphorylated at Ser392 in vivo and by CAK in vitro. Phosphorylation of p53 at Ser392 is altered in human tumors and has been reported to influence the growth suppressor function, DNA binding and transcriptional activation of p53.

Swiss-Prot

P04637

Applications

Blocking

Specificity

This peptide can be used with studies using BS5027 p-p53 (S20) pAb.

Purification & Purity

Synthetic peptide p-p53 (S20). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

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

Research Use

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