Signalway

p-53(C-trem)

Mouse monoclonal Antibody

#53170

Catalog Number: 53170

Amount: 100μg/100μl

Swiss-Prot No. : P04637

Gene name: tp53

Gene id: 7157

Clone Number： 1C9-2G3-F4

Form of Antibody: Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol
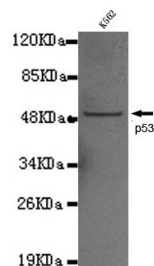
Storage/Stability: Store at -20℃/1 year

Immunogen: Purified recombinant human p-53 protein fragments expressed in E.coli.

Purification: affinity-chromatography

Specificity/Sensitivity: This antibody detects endogenous levels of p-53 and does not corss-react with related proteins

Reactivity: Human,Mouse,Monkey

Applications: Predicted MW: 53 kd   WB: 1:1000

Western blot detection of p53 in K562 cell lysates using p53 mouse mAb (1:1000 diluted).Predicted band size: 53KDa.Observed band size: 53KDa.

Background :

This gene encodes tumor protein p53, which responds to diverse cellular stresses to regulate target genes that induce cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. p53 protein is expressed at low level in normal cells and at a high level in a variety of transformed cell lines, where it's believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing transcription activation, DNA-binding, and oligomerization domains. It is postulated to bind to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site, and hence cause the loss of tumor suppressor activity. Alterations of this gene occur not only as somatic mutations in human malignancies, but also as germline mutations in some cancer-prone families with Li-Fraumeni syndrome. Multiple p53 variants due to alternative promoters and multiple alternative splicing have been found. These variants encode distinct isoforms,which can regulate p53 transcriptional activity.