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p53 Ab

Images(2)

Cat.#: BF0604	Concn.: ~1mg/ml	Mol.Wt.: 43.7kDa
Size:	Source: Mouse	Clonality: Monoclonal

Application: ELISA 1:10000, WB 1:500-1:2000, IHC 1:200-1:1000, IF/ICC 1:200
*The optimal dilutions should be determined by the end user.

Reactivity: Human,Mouse,Rat

Storage: Mouse IgG1 in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

Purification: Affinity-chromatography.

Immunogen: Purified recombinant fragment of human p53 expressed in E. Coli.

Uniprot: P04637

Description: p53 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.
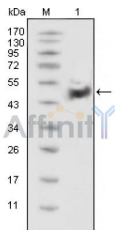

Figure 1: Western blot analysis using p53 mouse mAb against HEK293 cell lysate(1).

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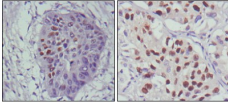website:www.affbiotech.com
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Figure 2: Immunohistochemical analysis of paraffin-embedded human esophageal cancer (left) and lung cancer (right), showing nuclear localization using p53 mouse mAb with DAB staining.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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