

p53 Ab

Cat.#: AF0879 Size: 100ul,200ul	Concn.: 1mg/ml Source: Rabbit	Mol.Wt.: 53kDa Clonality: Polyclonal
Application:	WB 1:500-1:2000 IHC 1:50-1:200 IF/ICC 1:100-1:500	
Reactivity:	Human,Mouse,Rat	
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).	
Specificity:	p53 Ab detects endogenous levels of p53.	
Immunogen:	A synthesized peptide derived from human p53.	
Uniprot:	P04637	
Description:	Tumor protein p53, a nuclear pro in the regulation of cell cycle, sp from G0 to G1. It is found in very however, in a variety of transfor expressed in high amounts, and transformation and malignancy. protein containing DNA-binding, transcription activation domains tetramer to a p53-binding site a downstream genes that inhibit g thus function as a tumor suppre frequently occur in a number of to bind the consensus DNA bind the loss of tumor suppressor act gene occur not only as somatic of malignancies, but also as germli cancer-prone families with Li-Fra	otein, plays an essential role pecifically in the transition y low levels in normal cells, med cell lines, it is believed to contribute to p53 is a DNA-binding oligomerization and a. It is postulated to bind as a nd activate expression of growth and/or invasion, and ssor. Mutants of p53 that different human cancers fail ing site, and hence cause civity. Alterations of the TP53 mutations in human ine mutations in some aumeni syndrome.
Subcellular Location:	Cytoplasm; Cytoplasm. Nucleus. Endoplasmic reticulum. Interacti nuclear localization. Recruited ir CHEK2; Nucleus. Cytoplasm. Loc cytoplasm in most cells. In some nucleus that are different from r Localized in the nucleus in most cytoplasm in some cells; Nucleu mainly in the nucleus with minon Nucleus. Cytoplasm. Predominant the cytoplasm when expressed of Cytoplasm. Predominantly nucle cytoplasm following cell stress.	Nucleus > PML body. ion with BANP promotes into PML bodies together with calized in both nucleus and e cells, forms foci in the nucleoli; Nucleus. Cytoplasm. cells but found in the s. Cytoplasm. Localized r staining in the cytoplasm; ntly nuclear but localizes to with isoform 4 and Nucleus. ear but translocates to the



Tissue Specificity:	Ubiquitous. Isoforms are expressed in a wide range of normal tissues but in a tissue-dependent manner. Isoform 2 is expressed in most normal tissues but is not detected in brain, lung, prostate, muscle, fetal brain, spinal cord and fetal liver. Isoform 3 is expressed in most normal tissues but is not detected in lung, spleen, testis, fetal brain, spinal cord and fetal liver. Isoform 7 is expressed in most normal tissues but is not detected in prostate, uterus, skeletal muscle and breast. Isoform 8 is detected only in colon, bone marrow, testis, fetal brain and intestine. Isoform 9 is expressed in most normal tissues but is not detected in brain, heart, lung, fetal liver, salivary gland, breast or intestine.
Similarity:	The nuclear export signal acts as a transcriptional repression domain. The TADI and TADII motifs (residues 17 to 25 and 48 to 56) correspond both to 9aaTAD motifs which are transactivation domains present in a large number of yeast and animal transcription factors.Belongs to the p53 family.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.

Western blot analysis of p53 using various lysates Lanes 1 -2: Merged signal (red and green). Green - AF0879 observed at 53kDa. Red - loading control, T0004, observed at 36 kDa. Blots were developed with Goat Anti-Rabbit IgG(H+L) FITC-conjugated (S0008) and Goat Anti-Mouse IgG(H+L) Alexa Fluor 594-conjugated (S0005) secondary antibodies



PM2.5, SO2 and NO2 co-exposure impairs neurobehavior and induces mitochondrial injuries in the mouse brain. Chemosphere 2016 Nov;163:27-34



H Shi et al. Effects of p53 on aldosterone-induced mesangial cell apoptosis in vivo and in vitro. Mol Med Rep 2016 Jun;13(6):5102-8



Affinity Biosciences website:www.affbiotech.com order:order@affbiotech.com



Western blot analysis on MDA-MB-435 cell lysate using p53 Ab.The lane on the left is treated with the antigen-specific peptide.



IHC analysis of humman brain tissue, using P53 Ab.



AF0879 staining HT-29 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab(Cat.# S0006), diluted at 1/600, was used as secondary Ab.

<code>IMPORTANT:</code> 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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