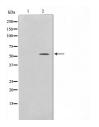


p53 Ab

Cat.#: AF0877 Size: 100ul,200ul	Concn.: 1mg/ml Source: Rabbit	Mol.Wt.: 53kDa Clonality: Polyclonal
Application:	WB 1:500-1:2000, 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 protein, plays an essential role in the regulation of cell cycle, specifically in the transition from G0 to G1. It is found in very low levels in normal cells, however, in a variety of transformed cell lines, it is expressed in high amounts, and believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing DNA-binding, oligomerization and transcription activation domains. It is postulated to bind as a tetramer 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 the TP53 gene occur not only as somatic mutations in human malignancies, but also as germline mutations in some cancer-prone families with Li-Fraumeni syndrome.	
Subcellular Location:	Cytoplasm; Cytoplasm. Nucleus Endoplasmic reticulum. Interact nuclear localization. Recruited i CHEK2; Nucleus. Cytoplasm. Lo cytoplasm in most cells. In som nucleus that are different from Localized in the nucleus in mos cytoplasm in some cells; Nucleu mainly in the nucleus with mino Nucleus. Cytoplasm. Predomina the cytoplasm when expressed Cytoplasm. Predominantly nucle cytoplasm following cell stress.	tion with BANP promotes nto PML bodies together with calized in both nucleus and e cells, forms foci in the nucleoli; Nucleus. Cytoplasm. t cells but found in the us. Cytoplasm. Localized or staining in the cytoplasm; intly nuclear but localizes to with isoform 4 and Nucleus.



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



AF0877 staining MDA-MB-435 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, diluted at 1/600, was used as the 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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