

p53 Ab

Cat.#: DF6066 Size: 100ul,200ul	Concn.: 1mg/ml Source: Rabbit	Mol.Wt.: 44kDa Clonality: Polyclonal
Application:	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500	
Reactivity:	Human,Mouse	
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).	
Specificity:	p53 Ab detects endogenous levels of total p53.	
Immunogen:	A synthesized peptide derived from human p53.	
Uniprot:	P04637	
Description:	The p53 tumor suppressor prot cellular response to DNA dama aberrations. Activation of p53 c arrest and DNA repair or apopt phosphorylated at multiple site different protein kinases in vitre phosphorylation of p53 at Ser1 reduced interaction between p the oncoprotein MDM2 (4). MDI by targeting it for ubiquitination degradation (5,6). p53 can be p and DNA-PK at Ser15 and Ser3 ability of MDM2 to bind p53, pro accumulation and activation of damage (4,7). Chk2 and Chk1 of Ser20, enhancing its tetrameriz (8,9). p53 is phosphorylated at CAK in vitro (11). Phosphorylati increased in human tumors (12 influence the growth suppresso transcriptional activation of p53 phosphorylated at Ser6 and Ser vitro and in vivo (13,15). Phosp regulates the ability of p53 to in Acetylation of p53 is mediated acetyltransferases. Inhibition of MDM2 from recruiting HDAC1 of stabilizes p53. Acetylation appet the accumulation of p53 protein	ge and other genomic can lead to either cell cycle osis (1). p53 is s in vivo and by several o (2,3). DNA damage induces 5 and Ser20 and leads to a 53 and its negative regulator, M2 inhibits p53 accumulation n and proteasomal ohosphorylated by ATM, ATR, 7. Phosphorylation impairs the omoting both the p53 in response to DNA can phosphorylate p53 at zation, stability, and activity Ser392 in vivo (10,11) and by on of p53 at Ser392 is 1) and has been reported to or function, DNA binding, and 3 (10,13,14). p53 is r9 by CK16 and CK1 ε both in horylation of p53 at Ser46 nduce apoptosis (16). by p300 and CBP f deacetylation suppressing omplex by p19 (ARF) ears to play a positive role in
Subcellular Location:	Cytoplasm; Cytoplasm. Nucleus Endoplasmic reticulum. Interac	



nuclear localization. Recruited into PML bodies together with CHEK2; Nucleus. Cytoplasm. Localized in both nucleus and cytoplasm in most cells. In some cells, forms foci in the nucleus that are different from nucleoli; Nucleus. Cytoplasm. Localized in the nucleus in most cells but found in the cytoplasm in some cells; Nucleus. Cytoplasm. Localized mainly in the nucleus with minor staining in the cytoplasm; Nucleus. Cytoplasm. Predominantly nuclear but localizes to the cytoplasm when expressed with isoform 4 and Nucleus. Cytoplasm. Predominantly nuclear but translocates to the cytoplasm following cell stress.

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 jung and itestine.

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 Hela whole cell lysates, using p53 Ab. The lane on the left was treated with the antigen-specific peptide.





DF6066 at 1/100 staining Mouse colon tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



DF6066 staining MDA-MB-435 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(Red), 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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