

## p53(Ab-15) Antibody

Catalog No: #AB21085



Package Size: #AB21085-1 50ul #AB21085-2 100ul #AB21085-4 25ul

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## Description

Product Name	p53(Ab-15) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC IF IP
Species Reactivity	Human
Specificity	The antibody detects endogenous level of total p53 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.13~17 (P-L-S-Q-E) derived from Human p53.
Target Name	p53
Other Names	Tumor suppressor p53; Phosphoprotein p53; Antigen NY-CO-13; TP53;
Accession No.	Swiss-Prot: P04637NCBI Protein: NP_000537.3
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

## Application Details

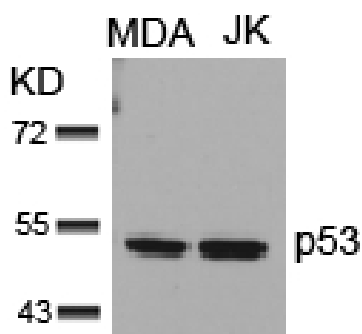
Predicted MW: 53kd

Western blotting: 1:500~1:1000

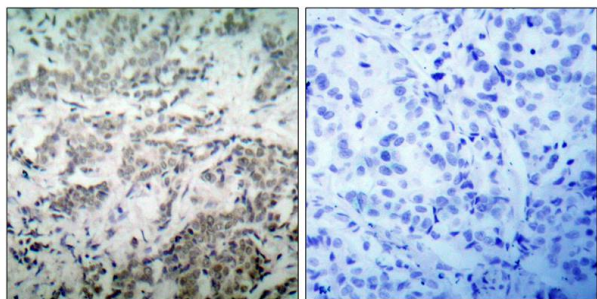
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

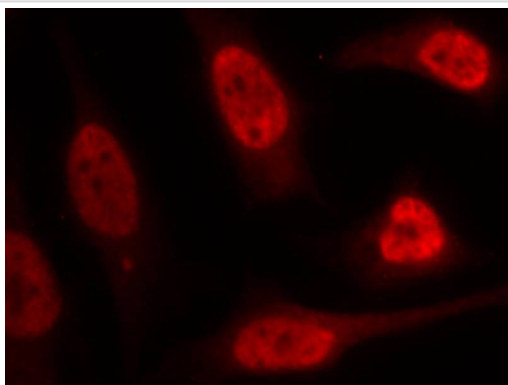
## Images



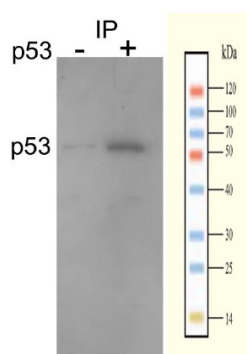
Western blot analysis of extracts from MDA and JK cells using p53(Ab-15) Antibody #AB21085.



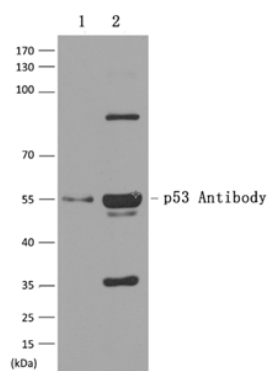
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using p53(Ab-15) Antibody #AB21085(left) or the same antibody preincubated with blocking peptide(right).



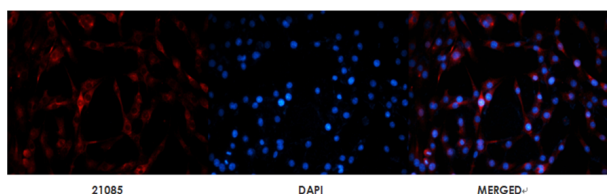
Immunofluorescence staining of methanol-fixed HeLa cells using p53(Ab-15) Antibody #AB21085.



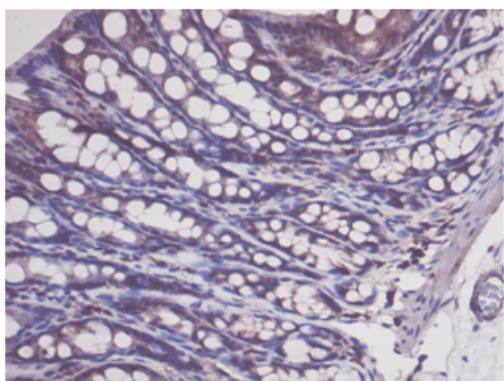
Immunoprecipitation analysis of extracts of 293T cells incubated with p53 (Ab-15) Antibody



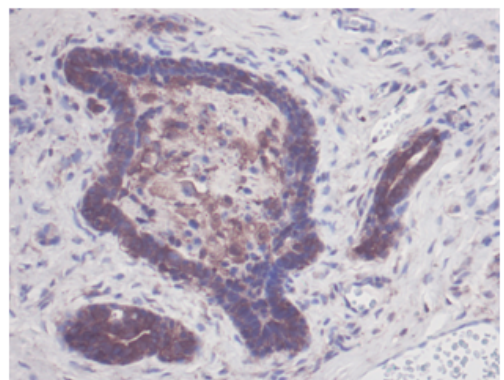
All lanes : p53(Ab-15) Antibody (21085) at 1/1000 dilution  
Lane 1 : Rat breast tissue;  
Lane 2 : Rat colon tissue;  
Lysates/proteins at 40 µg per lane.  
Predicted band size : 53 kDa  
Observed band size : 55 kDa



Immunofluorescent analysis of formalin-fixed, paraffin-embedded rat breast with AB21085 at 1/100 dilution. A Goat Anti-Rabbit IgG



AB21085 at 1/150 staining rat colon tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for one night at 4°C. A Goat Anti-Rabbit IgG H&L (HRP) at 1/200 was used as secondary.



AB21085 at 1/150 staining rat breast tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for one night at 4°C. A Goat Anti-Rabbit IgG H&L (HRP) at 1/200 was used as secondary.

## Background

p53 is a nuclear protein which 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 in high amounts and believed to contribute to transformation and malignancy. The open reading frame of p53 is 393 amino acids long, with the central region (consisting of amino acids from about 100 to 300) containing the DNA-binding domain. This proteolysis-resistant core is flanked by a C-terminal end mediating oligomerization and an N-terminal end containing a strong transcription activation signal. p53 binds as a tetramer to a PBS (p53-Binding Site) and activates the expression of downstream genes that inhibit growth and/or invasion. p53 binds as a tetramer to a p53-binding site (PBS) and to activate the expression of adjacent genes that inhibit growth and/or invasion. Deletion of one or both p53 alleles reduces the expression of tetramers, resulting in decreased expression of the growth inhibitory genes

Lin T, et al. (2005) Nat Cell Biol; 7(2): 165-71.

Vega FM, et al. (2004) Mol Cell Biol; 24(23): 10366-80.

Li J, et al. (2004) J Biol Chem; 279(40): 41275-9.

Wang J, et al. (2004) J Biol Chem; 279(38): 39584-92.

**Note:** This product is for in vitro research use only and is not intended for use in humans or animals.