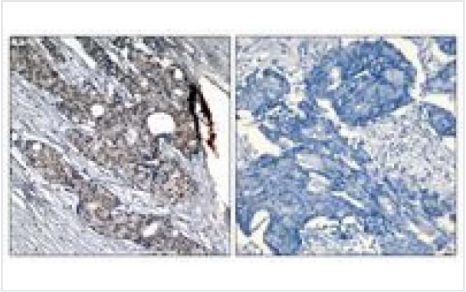
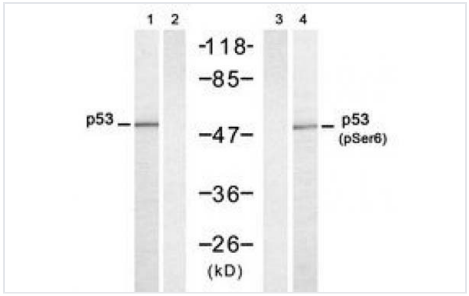
p53 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	p53, Polyclonal Antibody
Full Product Name	p53 antibody
Product Gene Name	anti-p53 antibody
Product Synonym Names	Rabbit polyclonal p53 antibody; Polyclonal p53 antibody; Anti-p53 antibody; p53; p 53; p-53 antibody; p 53 antibody; p-53; Phospho Ser6 antibody; p53 Oncoprotein antibody; transformation-related protein 53 antibody; trp53 antibody; tumor protein 53 antibody; tumor protein p53 (Li-Fraumeni syndrome) antibody; tumor suppressing protein antibody; tumor suppressor homolog p53 antibody; Tumor suppressor p53 antibody; tumor suppressor protein antibody; tumor suppressor protein p53 antibody; tumor suppressor TP53 antibody; tumor supressor p53 antibody; Xp53 antibody
Clonality	Polyclonal
Host	Rabbit
Form/Format	Liquid form in PBS buffer (no MG2+ or Ca2+), pH 7.4, 150 mm NaCl,0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified by immunoaffinity chromatography.
Concentration	1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at-20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	24,401 Da
OMIM	133239
Immunogen	p53 antibody was raised in Rabbit using the peptide sequence around phosphorylation site of serine 6 (P-Q-S(p)-D-P) derived from Human p53 as the immunogen.
Cross-Reactivity	Human, Mouse
Product Categories/Family for anti-p53 antibody	DNA & RNA
Applications Tested/Suitable for anti-p53 antibody	Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-p53 antibody	IHC: 1:50-1:100 WB: 1:500-1:1000
Related Product Information for anti-p53 antibody	The p53 gene like the Rb gene, is a tumor suppressor gene, i.e., its activity stops the formation of tumors. If a person inherits only one functional copy of the p53 gene from their parents, they are predisposed to cancer and usually develop several independent tumors in a variety of tissues in early adulthood. This condition is rare, and is known as Li-Fraumeni syndrome. However, mutations in p53 are found in most tumor types, and so contribute to the complex network of molecular events leading to tumor formation.
Other Notes	Small volumes of anti-p53 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for p53 purchase	MBS5309510 is an antibody targeting p53. Also known as p53 antibody. Host: Rabbit.



Immunohistochemistry (IHC) of anti-p53 antibody
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using p53 (Phospho-Ser6) antibody (left) or the same antibody preincubated with with blocking peptide (right)



Western Blot (WB) of anti-p53 antibody
Western Blot analysis of extracts from HT29 and Hela cells untreated or treated with UV using p53 (Phospho-Ser6) antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for p53. It may not necessarily be applicable to this product.

NCBI GI #	23491729
NCBI GeneID	7157
NCBI Accession #	BAC16799.1
UniProt Secondary Accession #	Q15086; Q15087; Q15088; Q16535; Q16807; Q16808; Q16809; Q16810; Q16811; Q16848; Q2XN98
UniProt Related Accession #	P04637
NCBI Official Full Name	P53
NCBI Official Synonym Full Names	tumor protein p53
NCBI Official Symbol	TP53
NCBI Official Synonym Symbols	P53; BCC7; LFS1; TRP53
UniProt Protein Name	Cellular tumor antigen p53
UniProt Synonym Protein Names	Antigen NY-CO-13; Phosphoprotein p53; Tumor suppressor p53
Protein Family	p53 and DNA damage-regulated protein
UniProt Gene Name	TP53
UniProt Synonym Gene Names	P53
NCBI Protein Information	cellular tumor antigen p53
NCBI Summary for p53	This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons from identical transcript variants (PMIDs: 12032546, 20937277). [provided by RefSeq, Dec 2016]

UniProt Comments for p53	Acts as a tumor suppressor in many tumor types; induces growth arrest or apoptosis depending on the physiological circumstances and cell type. Involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. One of the activated genes is an inhibitor of cyclin-dependent kinases. Apoptosis induction seems to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of Bcl-2 expression. In cooperation with mitochondrial PPIF is involved in activating oxidative stress-induced necrosis; the function is largely independent of transcription. Induces the transcription of long intergenic non-coding RNA p21 (lincRNA-p21) and lincRNA-Mkln1. LincRNA-p21 participates in TP53-dependent transcriptional repression leading to apoptosis and seem to have to effect on cell-cycle regulation. Implicated in Notch signaling cross-over. Prevents CDK7 kinase activity when associated to CAK complex in response to DNA damage, thus stopping cell cycle progression. Isoform 2 enhances the transactivation activity of isoform 1 from some but not all TP53-inducible promoters. Isoform 4 suppresses transactivation activity and impairs growth suppression mediated by isoform 1. Isoform 7 inhibits isoform 1-mediated apoptosis. Regulates the circadian clock by repressing CLOCK-ARNTL/BMAL1-mediated transcriptional activation of PER2 (PubMed:24051492).
Research Articles on p53	**1.** Data indicate that nuclear envelope rupture in cancer cells is likely due to loss of either the Rb or the p53 pathway.
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