

## Product datasheet for **AP01656PU-S**

### p53 (TP53) pSer15 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/1000. <b>Immunoprecipitation:</b> 1/50-1/200. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/200.
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of p53 pSer15 protein.
Formulation:	Phosphate buffered saline (PBS), pH~7.2 containing 15 mM Sodium Azide as preservative. State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Predicted Protein Size:	~ 43 kDa
Gene Name:	tumor protein p53
Database Link:	<a href="#">Entrez Gene 7157 Human P04637</a>



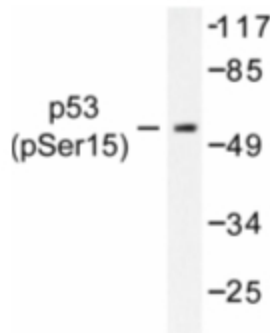
[View online »](#)

**Background:**

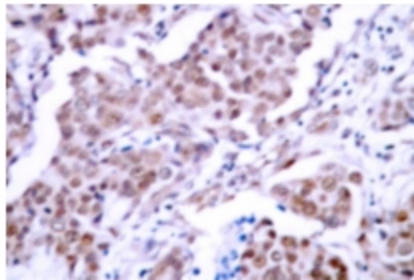
p53 is a DNA-binding, oligomerization domain- and transcription activation domain-containing tumor suppressor that up-regulates growth arrest and apoptosis-related genes in response to stress signals, thereby influencing programmed cell death, cell differentiation and cell cycle control mechanisms. p53 localizes to the nucleus yet can be chaperoned to the cytoplasm by the negative regulator MDM2, an E3 ubiquitin ligase that is up-regulated in the presence of active p53, where MDM2 polyubiquitinates p53 for proteasome targeting. p53 can assemble into tetramers in the absence of DNA, fluctuates between latent and active (DNA-binding) conformations, and is differentially activated through post-translational modifications including phosphorylation and acetylation. Mutations in the DNA-binding domain (DBD) (amino acids 110-286) of p53 can compromise energetically favorable association with CIS elements and are implicated in several human cancers. Phosphorylation of p53 at residue Thr 155 is mediated by the COP9 signalosome (CSN) and targets p53 to ubiquitin-26S proteasome-dependent degradation.

**Synonyms:**

Cellular tumor antigen p53, Tumor suppressor p53, Phosphoprotein p53, NY-CO-13

**Product images:**

Western blot (WB) analysis of p53 pSer15 antibody (Cat.-No.: [AP01656PU-N]) in extracts from HeLa cells.



Immunohistochemistry (IHC) analysis of p53 pSer15 antibody (Cat.-No.: [AP01656PU-N]) in paraffin-embedded human breast carcinoma tissue.