

## Product datasheet for **AP02390PU-S**

### p53 (TP53) pSer15 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000; Incubate membrane with diluted antibody in 5% nonfat milk, 1X TBS, 0,1% Tween-20 at 4°C with gentle shaking, overnight. <b>Immunohistochemistry on paraffin sections:</b> 1/50 - 1/100. <b>Immunofluorescence:</b> 1/100 - 1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptide derived from human p53 around the phosphorylation site of serine 15 (P-L-SP-Q-E).
Specificity:	This antibody detects endogenous levels of p53 only when phosphorylated at Serine 15.
Formulation:	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol as stabilizer State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	tumor protein p53
Database Link:	<a href="#">Entrez Gene 7157 Human P04637</a>



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**Background:**

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. Implicated in Notch signaling cross-over. 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.

**Synonyms:**

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

**Product images:**

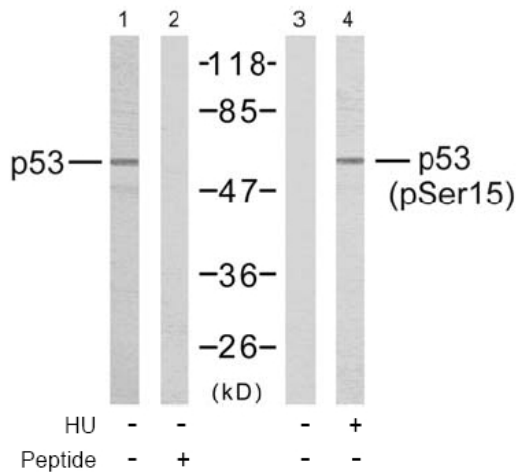


Figure 2. Western blot analysis of the extracts from HeLa cells untreated or treated with hydroxyurea, using p53 antibody (Line 1 and 2) and p53 (phospho-Ser15) antibody (Line 3 and 4).

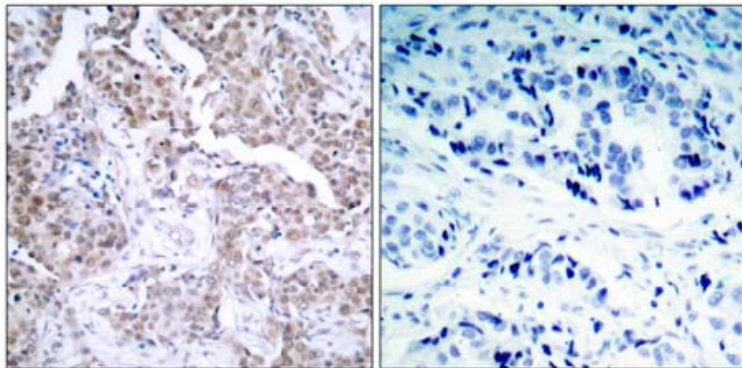
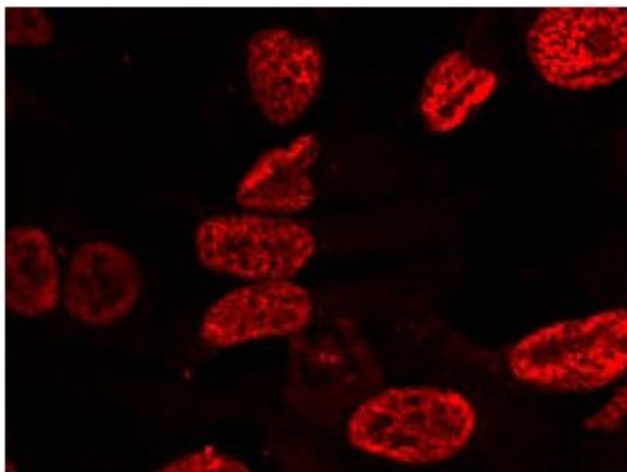


Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using p53 (phospho-Ser15) antibody.

P-Peptide                      -                      +



Immunofluorescence staining of methanol-fixed HeLa cells using p53 (pSer15) Antibody