

Product datasheet for **AP08001PU-N**

p53 (TP53) pSer6 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500~1/1000. Immunohistochemistry on Paraffin Sections: 1/50~1/100.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Phosphopeptide derived from Human p53 around the phosphorylation site of Serine 6 (P-Q-Sp-D-P).
Specificity:	This antibody detects endogenous levels of p53 only when phosphorylated at Serine 6.
Formulation:	PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography using epitope-specific peptide: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
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:	Entrez Gene 7157 Human P04637



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Background:

p53, a 53 kDa protein, binds to a DNA consensus sequence, the p53 response element, and regulates normal cell cycle events by activating transcription of genes involved either in progression through the cell cycle, or causing arrest in G1 when the genome is damaged. In most transformed and tumor cells the concentration of p53 is increased 5-1000 fold over the concentration in normal cells, principally due to the increased half-life (4 hrs) compared to that of wild-type (20 min). p53 localizes in the nucleus, but is detectable at the plasma membrane during mitosis and certain mutations also modulate cytoplasmic/nuclear distribution. p53 downregulates Bcl-2 expression and upregulates Bax expression, but may not always be necessary for apoptosis.

Synonyms:

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

Note:

Molecular Weight: 53 kDa

Product images:

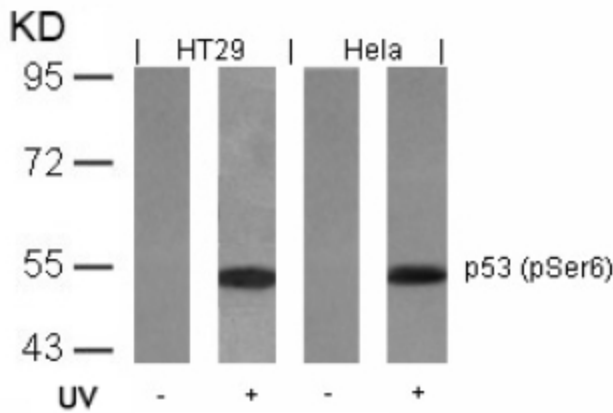
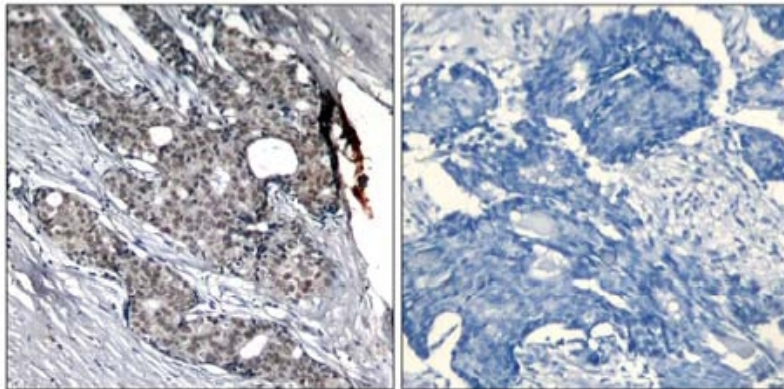


Figure 2. Western blot analysis of extract from HT29 and HeLa cells untreated or treated with UV using p53 antibody (phospho-Ser6)



P-Peptide - +

Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using p53 (phospho-Ser6) antibody