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Product datasheet for AP01660PU-S

p53 (TP53) pSer6 Rabbit Polyclonal Antibody

Product data:

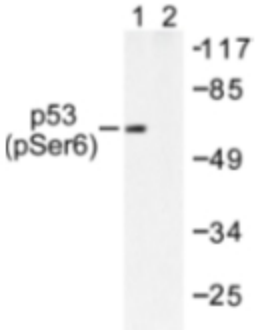
Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	**Western Blot:** 1/500-1/1000. **Immunohistochemistry on paraffin sections:** 1/50-1/200. **Immunoprecipitation.** (Use at an assay dependent dilution)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of p53 protein when phosphorylated at Ser6.
Formulation:	Phosphate buffered saline (PBS), pH~7.2 containing 0.05% 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:	~ 53 kDa
Gene Name:	tumor protein p53
Database Link:	Entrez Gene 7157 Human P04637

View online »

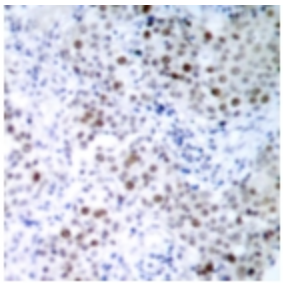
Background: p53, a DNA-binding, oligomerization domain and transcription activation domain-containing tumor suppressor, upregulates growth arrest and apoptosisrelated genes in response to stress signals, thereby influencing programmed cell death, cell differentiation and cell cycle control mechanisms. p53 localizes to the nucleus, yet can be chaperoned to the cytoplasm by the negative regulator MDM2, an E3 ubiquitin ligase that is upregulated in the presence of active p53, where MDM2 poly-ubiquitinates p53 for proteasome targeting. p53 fluctuates between latent and active (DNA-binding) conformations and is differentially activated through posttranslational 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.

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

Product images:



Western blot (WB) analysis of p53 pSer6 antibody (Cat.-No.: [AP01660PU-N]) in extracts from MDA-MB-435 cells treated with UV.



Immunohistochemistry (IHC) analysis of p53 pSer6 antibody (Cat.-No.: [AP01660PU-N]) in paraffin-embedded human breast carcinoma tissue.