

Product datasheet for **AP01664PU-N**

p73 (TP73) pTyr99 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1/500-1/1000. Immunohistochemistry on paraffin sections 1/50-1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	p73 antibody detects endogenous levels of p73 pTyr99 protein.
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:	~ 73 kDa
Gene Name:	tumor protein p73
Database Link:	Entrez Gene 7161 Human O15350

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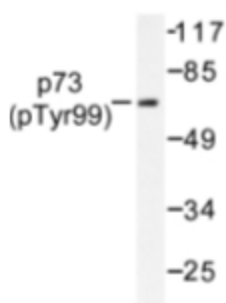
Background:

p73 protein is a member of the p53 family of proteins. The tumor-suppressor protein p53 exhibits sequence specific DNA binding, directly interacts with various cellular and viral proteins, and induces cell cycle arrest in response to DNA damage. In response to signals generated by a variety of genotoxic stresses, e.g, UV irradiation or DNA damage, p53 is expressed and undergoes post translational modification that results in its accumulation in the nucleus. p73 protein is expressed in either full length form (p73 alpha 80 kDa) or a shorter (p73 beta 70 kDa) mRNA variant. p73 gene was predicted to encode a protein with significant amino acid sequence similarity to p53. Each of the p53 amino acid residues implicated in direct sequence specific DNA binding is conserved in p73. p73 can activate the transcription of p53 responsive genes and inhibit cell growth in a p53 like manner by inducing apoptosis and cell cycle arrest. p73 has been mapped at chromosome 1p36.3, which is a locus of multiple suppressor genes for tumors including neuroblastoma and other cancers. This regulation of p73 by c-Abl in response to DNA damage was also demonstrated by a failure of ionizing radiation induced apoptosis after disruption of c-Abl-p73 interaction. The p73 protein can activate p53 responsive promoters and induce apoptosis in cells deficient in p53, which proves that inactivation of p53 family members may contribute to the biological properties of a subset of p53 mutants. The transcriptional activities of p53, p73 alpha, and p73 beta to induce their common cellular target genes differ among one another. Despite the high degree of similarity between p53 and p73, adenovirus E1B 55K, simian virus 40 T, and human papilloma virus E6 do not physically interact with p73, indicating that the functions of these two proteins may differ.

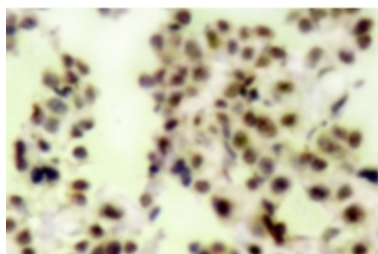
Synonyms:

OTTHUMP00000003479; OTTHUMP00000003480; P73

Product images:



Western blot (WB) analysis of p73 antibody (pTyr99, Cat.-No.: AP01664PU-N) in extracts from HeLa cells.



Immunohistochemistry (IHC) analyzes of p73 antibody (pTyr99, Cat.-No.: AP01664PU-N) in paraffin-embedded human breast carcinoma tissue.