

Product datasheet for **AP20512PU-N**

p73 (TP73) 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
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of p73 protein. (region surrounding Pro298)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store 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:	<u>Entrez Gene 7161 Human O15350</u>



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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. Activation of p53 leads to cell cycle arrest and in some cases to apoptosis, resulting in the inability of genetically damaged cells to proliferate. Thus, the p53 dependent pathways help to maintain genomic stability by eliminating damaged cells. The accumulation of high levels of p53 is a potential marker for malignancy. 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.

Synonyms:

OTTHUMP00000003479; OTTHUMP00000003480; P73

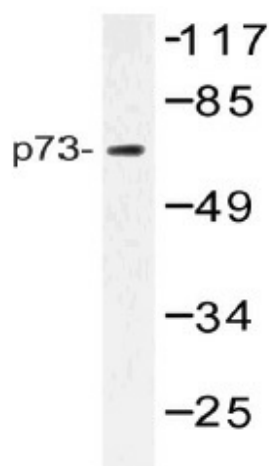
Protein Families:

Druggable Genome, Transcription Factors

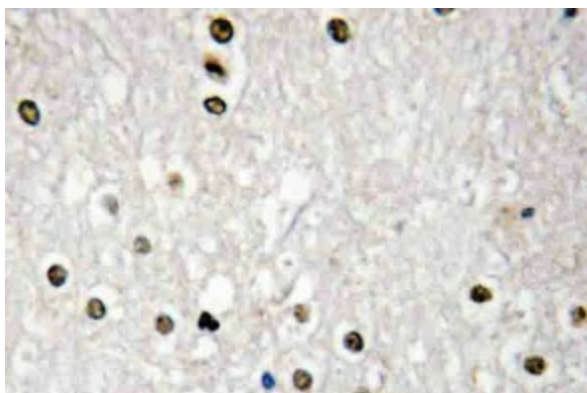
Protein Pathways:

Neurotrophin signaling pathway, p53 signaling pathway

Product images:



Western blot (WB) analysis of p73 antibody (Cat. No.: AP20512PU-N) in extracts from Jurkat cells.



Immunohistochemistry (IHC) analyzes of p73 antibody (Cat.-No.: AP20512PU-N) in paraffin-embedded human brain tissue.