

Product Name: p73 (Acetyl Lys321) Rabbit Polyclonal Antibody
Catalog #: APRab06247



Summary

Production Name	p73 (Acetyl Lys321) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Acetyl Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	TP73
Alternative Names	TP73; P73; Tumor protein p73; p53-like transcription factor; p53-related protein
Gene ID	7161.0
SwissProt ID	O15350.The antiserum was produced against synthesized Acetyl-peptide derived from human p73 around the Acetylation site of Lys321. AA range:281-330

Application

Dilution Ratio	WB 1:500-1:2000, IHC-P 1:100-300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200
Molecular Weight	70kDa

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Background

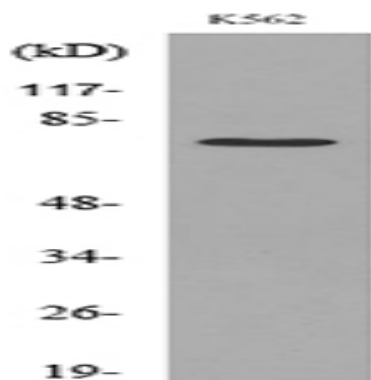
tumor protein p73(TP73) Homo sapiens This gene encodes a member of the p53 family of transcription factors involved in cellular responses to stress and development. It maps to a region on chromosome 1p36 that is frequently deleted in neuroblastoma and other tumors, and thought to contain multiple tumor suppressor genes. The demonstration that this gene is monoallelically expressed (likely from the maternal allele), supports the notion that it is a candidate gene for neuroblastoma. Many transcript variants resulting from alternative splicing and/or use of alternate promoters have been found for this gene, but the biological validity and the full-length nature of some variants have not been determined. [provided by RefSeq, Feb 2011],cofactor:Binds 1 zinc ion per subunit.,disease:Maps to a chromosome region frequently mutated in diverse cell lines of human cancer. Appears not to be frequently mutated in human cancers, in contrast to p53. Hemizygosity is observed in neuroblastoma and oligodendroglioma.,domain:Possesses an acidic transactivation domain, a central DNA binding domain and a C-terminal oligomerization domain that binds to the ABL tyrosine kinase SH3 domain.,domain:The WW-binding motif mediates interaction with WWOX.,function:Participates in the apoptotic response to DNA damage. Isoforms containing the transactivation domain are pro-apoptotic, isoforms lacking the domain are anti-apoptotic and block the function of p53 and transactivating p73 isoforms. May be a tumor suppressor protein.,induction:Not induced by DNA damage. Isoforms lacking the transactivation domain block gene induction.,miscellaneous:Activated and stabilized by interaction with RANBP9.,PTM:Isoform alpha (but not isoform beta) is sumoylated on Lys-627, which potentiates proteasomal degradation but does not affect transcriptional activity.,similarity:Belongs to the p53 family.,similarity:Contains 1 SAM (sterile alpha motif) domain.,subcellular location:Accumulates in the nucleus in response to DNA damage.,subunit:Found in a complex with p53/TP53 and CABLES1. The C-terminal oligomerization domain binds to the ABL tyrosine kinase SH3 domain. Interacts with HECW2. Isoform Beta interacts homotypically and with p53/TP53, whereas isoform Alpha does not. Isoform Gamma interacts homotypically and with all p73 isoforms. Isoform Delta interacts with isoform Gamma, isoform Alpha, and homotypically. Isoforms Alpha and Beta interact with HIPK2. Isoform Alpha interacts with RANBP9. Isoform Beta interacts with WWOX.,tissue specificity:Brain, kidney, placenta, colon, heart, liver, spleen, skeletal muscle, prostate, thymus and pancreas. Highly expressed in fetal tissue.,

Research Area

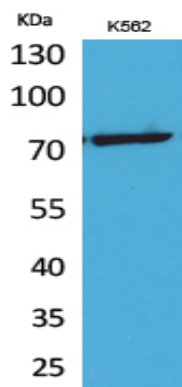
p53;Neurotrophin;

Image Data

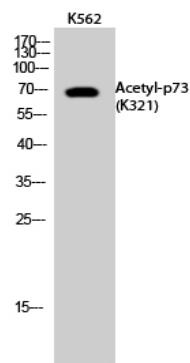
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Western blot analysis of lysate from K562 cells, using p73 (Acetyl-Lys321) Antibody.

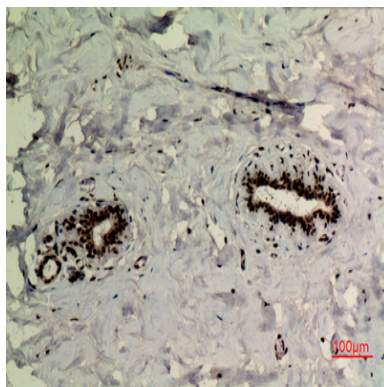


Western Blot analysis of K562 cells using Acetyl-p73 (K321) Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

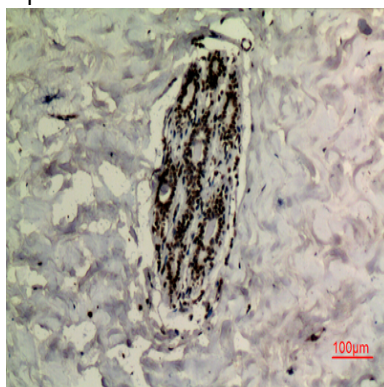


Western Blot analysis of K562 cells using Acetyl-p73 (K321) Polyclonal Antibody. Secondary antibody was diluted at 1:20000

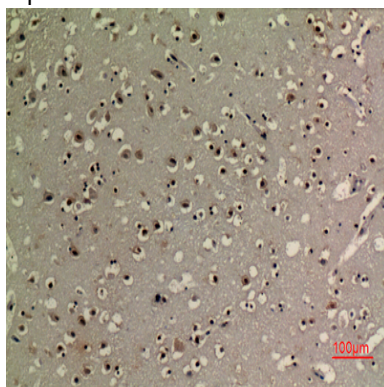
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Immunohistochemical analysis of paraffin-embedded human-breast, antibody was diluted at 1:100

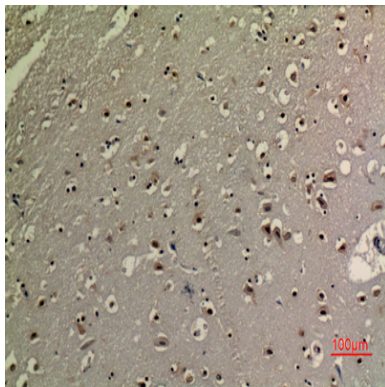


Immunohistochemical analysis of paraffin-embedded human-breast, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100

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Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100

Note

For research use only.