p73 (Acetyl Lys321) Rabbit pAb

CatalogNo: YK0037

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 70kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC: 1:100-300
ELISA 1:20000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized Acetyl-peptide derived from human p73 around the Acetylation site of Lys321. AA range:281-330
Specificity	Acetyl-p73 (K321) Polyclonal Antibody detects endogenous levels of p73 protein only when acetylated at K321.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):SAkNG

Target Information

Gene name TP73

Protein Name Tumor protein p73

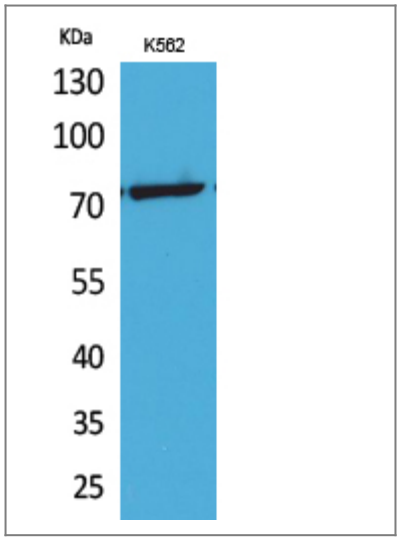
Organism	Gene ID	UniProt ID
Human	7161;	O15350;
Mouse		Q9JJP2;

Cellular Localization Nucleus . Cytoplasm. Accumulates in the nucleus in response to DNA damage.

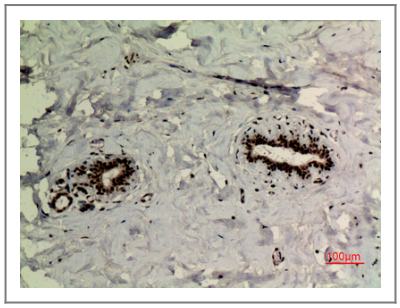
Tissue specificity Expressed in striatal neurons of patients with Huntington disease (at protein level). Brain, kidney, placenta, colon, heart, liver, spleen, skeletal muscle, prostate, thymus and pancreas. Highly expressed in fetal tissue. Expressed in the respiratory epithelium (PubMed:34077761).

Function 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.,

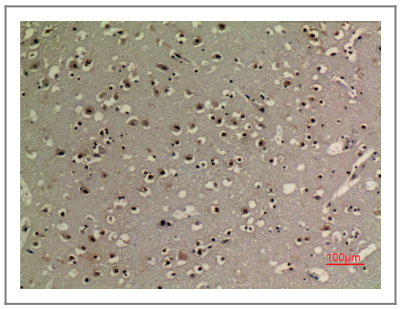
Validation Data



Western Blot analysis of K562 cells using Acetyl-p73 (K321) Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



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

Contact information

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Please scan the QR code to access additional product information:
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