

Anti-p73 Picoband Antibody

Catalog # ABO11926

Product Information

Application	WB, IHC-P
Primary Accession	O15350
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Tumor protein p73(TP73) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	7161
Other Names	Tumor protein p73, p53-like transcription factor, p53-related protein, TP73, P73
Calculated MW	69623
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Subcellular 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. .
Source	Eukaryota
Protein Name	Tumor protein p73
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E.coli-derived human p73 recombinant protein (Position: M1-E198). Human p73 shares 96% amino acid (aa) sequence identity with mouse p73.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the p53 family.

Protein Information

Name	TP73 (HGNC:12003)
Synonyms	P73
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. Is an activator of FOXJ1 expression (By similarity). It is an essential factor for the positive regulation of lung ciliated cell differentiation (PubMed: 34077761).
Cellular Location	Nucleus. Cytoplasm. Note=Accumulates in the nucleus in response to DNA damage
Tissue Location	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).

Background

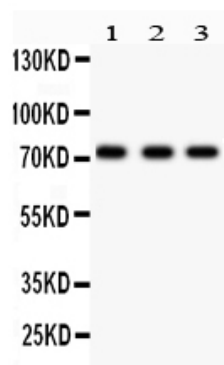
p73, also known as tumor protein 73 (TP73), encodes a member of the p53 family of transcription factors involved in cellular responses to stress and development. It is mapped to a region on chromosome 1p36 that is frequently deleted in neuroblastoma and other tumors, and thought to contain multiple tumor 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. Furthermore, recent findings are suggesting that over-expression of transcription factors involved in cell cycle regulation and synthesis of DNA in mammalian cells (e.g.: E2F-1) induces the expression of p73. In addition, p73 is a substrate of the c-Abl kinase and that the ability of c-Abl to phosphorylate p73 is markedly increased by gamma-irradiation.

Images

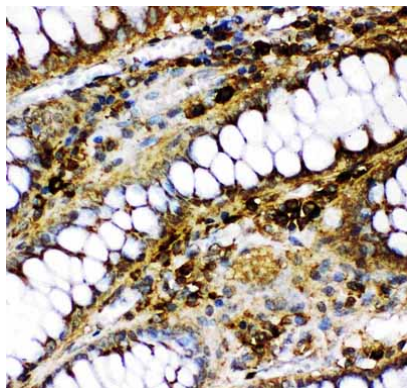


Anti- p73 antibody, ABO11926, Western blotting All lanes:
 Anti p73 (ABO11926) at 0.5ug/ml WB: Recombinant
 Human p73 Protein 0.5ng Predicted bind size:
 45KD Observed bind size: 45KD

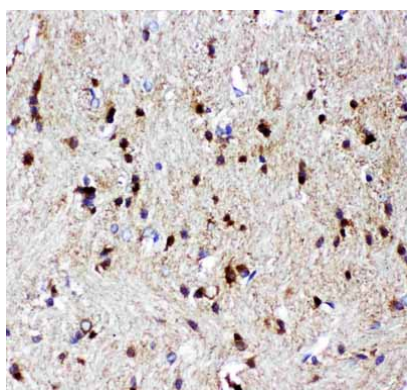
Anti- p73 antibody, ABO11926, Western blotting All lanes:
 Anti p73 (ABO11926) at 0.5ug/ml Lane 1: HELA Whole Cell
 Lysate at 40ug Lane 2: MCF-7 Whole Cell Lysate at



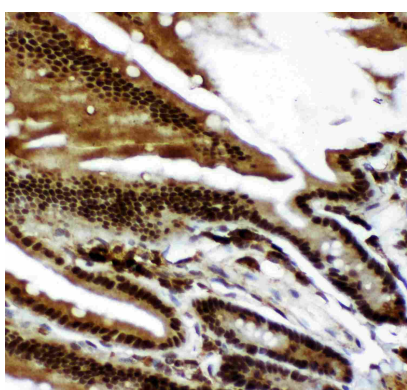
40ugLane 3: COLO320 Whole Cell Lysate at 40ugPredicted
bind size: 73KDObserved bind size: 73KD



Anti- p73 antibody, ABO11926, IHC(P)IHC(P): Human
Intestinal Cancer Tissue



Anti- p73 antibody, ABO11926, IHC(P)IHC(P): Rat Brain
Tissue



Anti- p73 antibody, ABO11926, IHC(P)IHC(P): Mouse
Intestine Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.