10320 Camino Santa Fe, Suite G
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Anti-p73 Picoband Antibody

Catalog # ABO11926

Specification

Anti-p73 Picoband Antibody - 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.

Anti-p73 Picoband Antibody - Additional Information

Gene ID 7161

Other Names
Tumor protein p73, p53-like transcription factor, p53-related protein, TP73, P73

Calculated MW
69623 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/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. .

Protein Name
Tumor protein p73

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

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 r˚Constitution, 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.

Anti-p73 Picoband Antibody - Protein Information

Name TP73

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).

Anti-p73 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-p73 Picoband Antibody - Images

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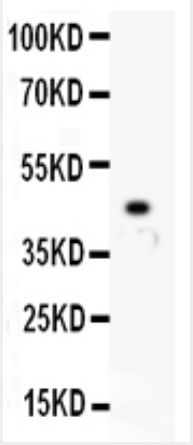
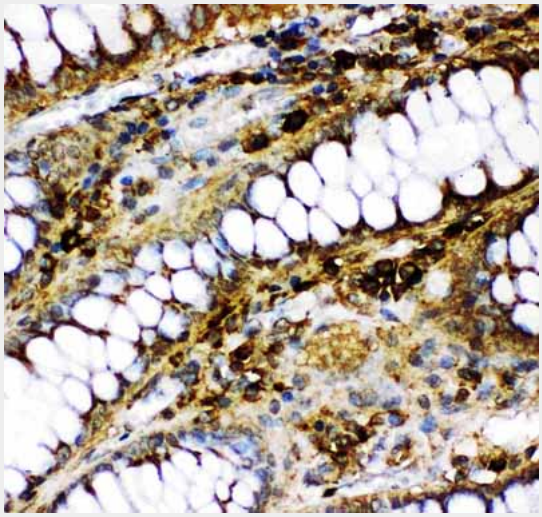


Anti- p73 antibody, ABO11926, Western blottingAll lanes: Anti p73 (ABO11926) at 0.5ug/mlWB: Recombinant Human p73 Protein 0.5ngPredicted bind size: 45KDObserved bind size: 45KD

Anti- p73 antibody, ABO11926, Western blottingAll lanes: Anti p73 (ABO11926) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 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

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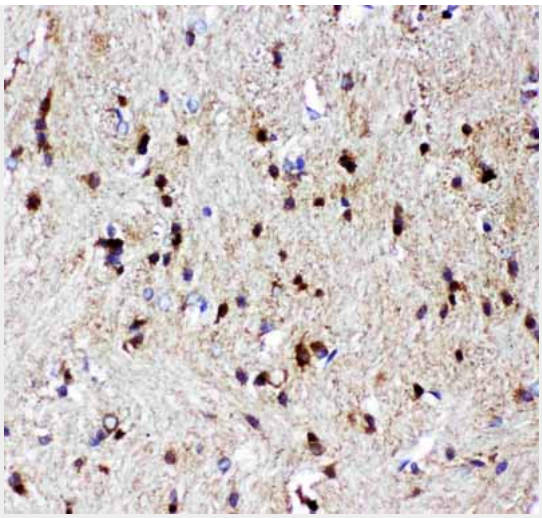
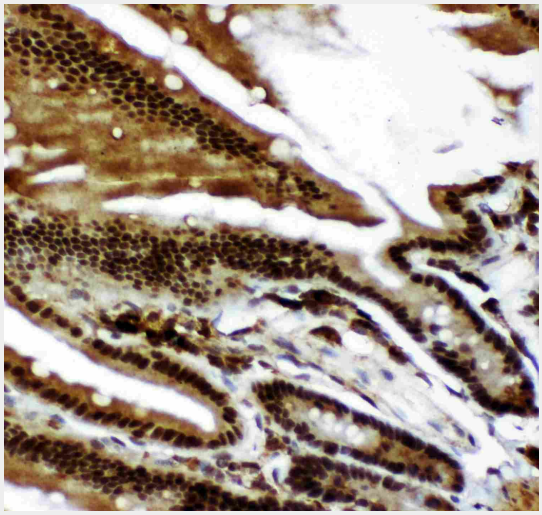


Anti- p73 antibody, ABO11926, IHC(P)IHC(P): Rat Brain Tissue



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

Anti-p73 Picoband Antibody - 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 finding 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.