

Anti-p63 Picoband Antibody
Catalog # ABO11850

Specification

Anti-p63 Picoband Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB, IHC |
| Primary Accession | O9H3D4 |
| Host | Rabbit |
| Reactivity | Human |
| Clonality | Polyclonal |
| Format | Lyophilized |

Description

Rabbit IgG polyclonal antibody for Tumor protein 63(TP63) detection. Tested with WB, IHC-P, ICC in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-p63 Picoband Antibody - Additional Information

Gene ID 8626

Other Names

Tumor protein 63, p63, Chronic ulcerative stomatitis protein, CUSP, Keratinocyte transcription factor KET, Transformation-related protein 63, TP63, Tumor protein p73-like, p73L, p40, p51, TP63, KET, P63, P73H, P73L, TP73L

Calculated MW

76785 MW KDa

Application Details

Immunocytochemistry , 0.5-1 µg/ml, Human, -
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Nucleus .

Tissue Specificity

Widely expressed, notably in heart, kidney, placenta, prostate, skeletal muscle, testis and thymus, although the precise isoform varies according to tissue type. Progenitor cell layers of skin, breast, eye and prostate express high levels of DeltaN-type isoforms. Isoform 10 is predominantly expressed in skin squamous cell carcinomas, but not in normal skin tissues. .

Protein Name

Tumor protein 63

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

E.coli-derived human p63 recombinant protein (Position: S311-E680). Human p63 shares 98% amino acid (aa) sequence identity with both mouse and rat p63.

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.

Anti-p63 Picoband Antibody - Protein Information

Name TP63

Synonyms KET, P63, P73H, P73L, TP73L

Function

Acts as a sequence specific DNA binding transcriptional activator or repressor. The isoforms contain a varying set of transactivation and auto-regulating transactivation inhibiting domains thus showing an isoform specific activity. Isoform 2 activates RIPK4 transcription. May be required in conjunction with TP73/p73 for initiation of p53/TP53 dependent apoptosis in response to genotoxic insults and the presence of activated oncogenes. Involved in Notch signaling by probably inducing JAG1 and JAG2. Plays a role in the regulation of epithelial morphogenesis. The ratio of DeltaN-type and TA*-type isoforms may govern the maintenance of epithelial stem cell compartments and regulate the initiation of epithelial stratification from the undifferentiated embryonal ectoderm. Required for limb formation from the apical ectodermal ridge. Activates transcription of the p21 promoter.

Cellular Location

Nucleus

Tissue Location

Widely expressed, notably in heart, kidney, placenta, prostate, skeletal muscle, testis and thymus, although the precise isoform varies according to tissue type. Progenitor cell layers of skin, breast, eye and prostate express high levels of DeltaN-type isoforms. Isoform 10 is predominantly expressed in skin squamous cell carcinomas, but not in normal skin tissues

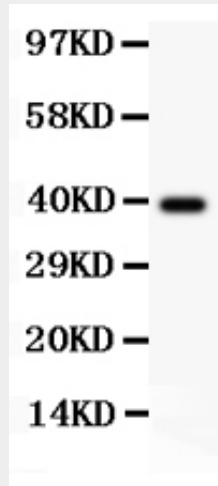
Anti-p63 Picoband Antibody - Protocols

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

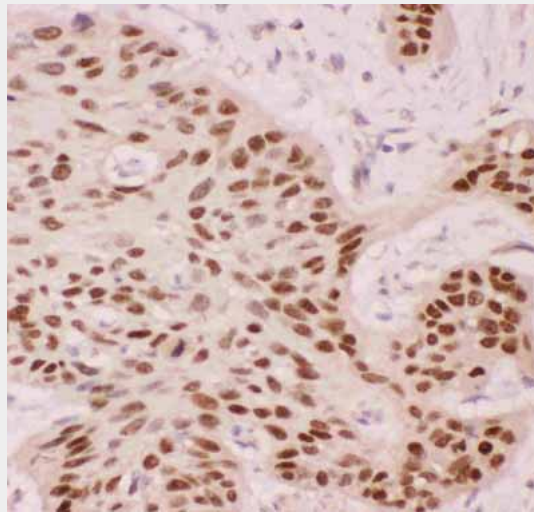
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-p63 Picoband Antibody - Images



Anti-p63 Picoband antibody, ABO11850-1.jpg All lanes: Anti P63 (ABO11850) at 0.5ug/ml WB: Recombinant Human P63 Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD



Anti-p63 Picoband antibody, ABO11850-2.JPG IHC(P): Human Oesophagus Squama Cancer Tissue

Anti-p63 Picoband Antibody - Background

Tumor protein p63 (TP63), also known as the p63 or TP73L is a protein that in humans is encoded by the TP63 gene. It is mapped to 3q28. TP63 is a member of the p53 family of transcription factors. This gene encodes for two main isoforms by alternative promoters (TAp63 and Δ Np63). TP63 has been mostly restricted to its apoptotic function and more recently as the guardian of oocyte integrity. It has been found that the combined loss of TP63 and p73 results in the failure of cells containing functional p53 to undergo apoptosis in response to DNA damage. TP63 is an essential regulator of stem cell maintenance in stratified epithelial tissues. Tp63 is also critical for maintaining the progenitor-cell populations that are necessary to sustain epithelial development and morphogenesis.