

## Product datasheet for **TA336443**

### **p73 (TP73) Mouse Monoclonal Antibody [Clone ID: 5B1288]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	5B1288
<b>Applications:</b>	ChIP, ICC/IF, IHC, IP, WB
<b>Recommended Dilution:</b>	Chromatin Immunoprecipitation: 1:20 - 1:1000, Western Blot: 1-3 ug/ml, Immunohistochemistry-Paraffin: 1:100 - 1:200, Immunohistochemistry: 1:100 - 1:200, Chromatin Immunoprecipitation (ChIP): 1:20-1:1000, Immunoprecipitation: 1:20 - 1:1000, Immunocytochemistry/ Immunofluorescence: 1:10-1:2000
<b>Reactivity:</b>	Human, Mouse
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1, kappa
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	This antibody was raised against full-length human p73. The epitope is thought to lie around the center of the molecule (NP_005418).
<b>Formulation:</b>	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at -20C. Avoid freeze-thaw cycles.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Protein G purified
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	73 kDa
<b>Gene Name:</b>	tumor protein p73
<b>Database Link:</b>	<a href="#">NP_005418</a> <a href="#">Entrez Gene 7161 Human O15350</a>



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**Background:**

p73 was identified as a long-lost cousin of tumor suppressor protein, p53. p73 has high homology with p53 as well as with p63, a gene implicated in the maintenance of epithelial stem cells. Significant homology between p53, p63, and p73 (approximately 63% amino acid identity in the DNA-binding domain) suggest that they may have overlapping functions in the regulation of gene expression. The targeted disruption of p73 gene leads to defects hippocampal dysgenesis, hydrocephalus, chronic inflammation and infections. Recently, splicing variant mRNAs of p73 has been identified in MCF-7, a breast carcinoma cell line. These mRNAs code for variant p73 proteins bearing distinct carboxy-terminal structures suggesting that the carboxy-terminal region of p73 may be important for the functions of this protein. Tumor BioMarker: Vella et al (2003) found p73 to be upregulated in a significant fraction of anaplastic thyroid cancers, whereas p73 was not detectable in normal thyroid epithelial cells nor in papillary or follicular thyroid cancer.

**Synonyms:**

P73

**Note:**

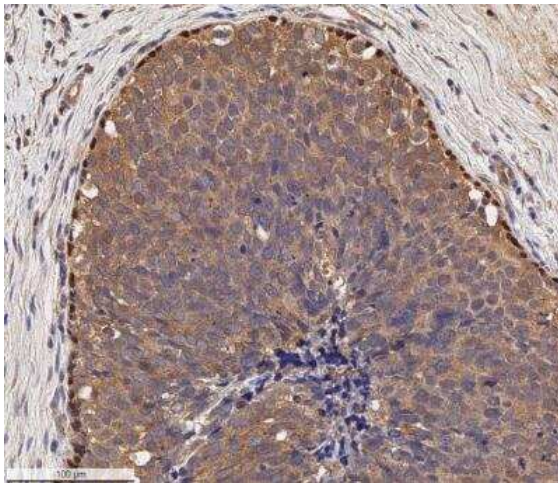
Reported use for Chromatin Immunoprecipitation assay (See accardi et al); Immunocytochemistry/Immunofluorescence and Immunoprecipitation (see Sayan et al)

**Protein Families:**

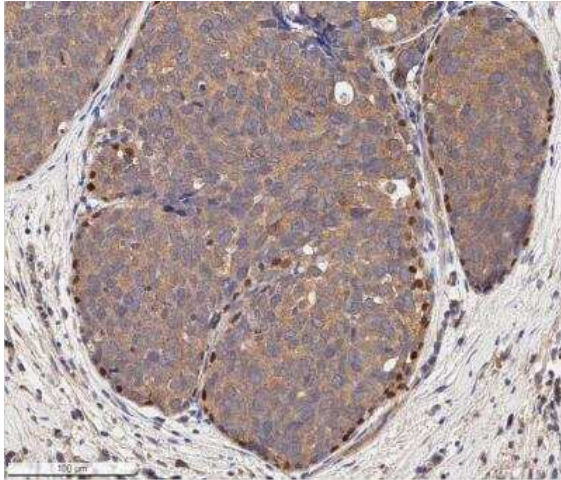
Druggable Genome, Transcription Factors

**Protein Pathways:**

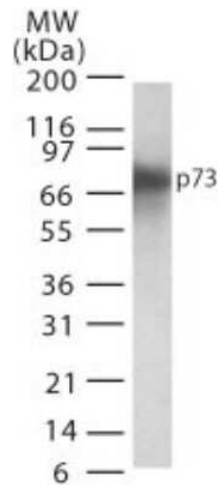
Neurotrophin signaling pathway, p53 signaling pathway

**Product images:**

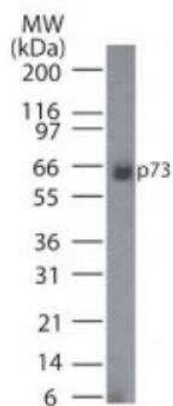
Immunohistochemistry-Paraffin: p73 Antibody (5B1288) TA336443 - Human breast cancer section using 10ug/mL of p73 antibody (clone 5B1288) on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) with 10 mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching using peroxide block. The sections were incubated with primary antibody for 30 minutes. Bond Polymer Refine Detection (Leica Biosystems) and DAB were used for signal detection which followed counterstaining with hematoxylin. Whole slide scanning and capturing of representative images (20X) were performed using Aperio AT2 (Leica Biosystems). The cancer cells showed cytoplasmic immunoreactivity for p73 and the signal was very weak in the core and stroma of tumors. Peripheral cells of tumor areas, apparently the myoepithelial cells, showed a strong nuclear staining of p73.



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Western Blot: p73 Antibody (5B1288) TA336443 - Analysis of p73 in transfected cell lysate using this antibody.



Western Blot: p73 Antibody (5B1288) TA336443 - Analysis of p73 in HeLa cell lysate (Cat no. NBP2-25045) using this antibody at 1 ug/mL.