Product Datasheet

p73 Antibody (5B1288)
NB100-56674

Unit Size: 0.1 mg
Store at -20C. Avoid freeze-thaw cycles.

Publications: 29

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# Product Information

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>Concentration</td>
<td>1.0 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at -20°C. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone</td>
<td>5B1288</td>
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<tr>
<td>Preservative</td>
<td>0.05% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1 Kappa</td>
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<tr>
<td>Purity</td>
<td>Protein G purified</td>
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<tr>
<td>Buffer</td>
<td>PBS</td>
</tr>
<tr>
<td>Target Molecular Weight</td>
<td>73 kDa</td>
</tr>
</tbody>
</table>

## Product Description

### Host
Mouse

### Gene ID
7161

### Gene Symbol
TP73

### Species
Human, Mouse

### Specificity/Sensitivity
It reacts with alpha, beta, gamma and delta isoforms of mouse and human p73 as well as the dominant negative p73 (Costanzo, et al, 2002). Because of its reactivity pattern it may be regarded as anti-pan p73. Immunoprecipitation details can be found in Sayan et al (2005). NB100-56674 has been shown to recognize all the known alternative splicing variants of human and mouse p73 (Costanzo et al, 2002). The antibody does not cross react with p53.

### Immunogen
This antibody was raised against full-length human p73. The epitope is thought to lie around the center of the molecule (NP_005418).

### Notes
The clone has also been referred to as 1288 in the literature. Endogenous expression of p73 has been detected in a variety of cell types; please refer to Product Citations for details regarding culture and treatment conditions.

## Product Application Details

### Applications
Western Blot, Chromatin Immunoprecipitation, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation

### Recommended Dilutions

### Application Notes
Reported use for ChIP assay (Accardi et al), ICC/IF and IP (Sayan et al). Use in IHC reported in scientific literature (PMID 19816568). The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.
Western Blot: p73 Antibody (5B1288) [NB100-56674] - Analysis of p73 in HeLa cell lysate (Cat no. NBP2-25045) using this antibody at 1 ug/mL.

Immunohistochemistry-Paraffin: p73 Antibody (5B1288) [NB100-56674] - Human breast cancer section using 10 ug/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.

Western Blot: p73 Antibody (5B1288) [NB100-56674] - Analysis of p73 in transfected cell lysate using this antibody.

Immunohistochemistry-Paraffin: p73 Antibody (5B1288) [NB100-56674] - 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.
Publications

Ng KY, Chan LH, Chai S et al. TP53INP1 down-regulation activates a p73-dependent DUSP10/ERK signaling pathway to promote metastasis of hepatocellular carcinoma Cancer Res. 2017 Jul 03 [PMID: 28674078] (Human)

de Abreu PA. Role of p53 in muscle wasting Thesis 2016 (IP, Mouse)


Lu H, Yan C, Quan XX et al. CK2 Phosphorylates and Inhibits TAp73 Tumor Suppressor Function to Promote Expression of Cancer Stem Cell Genes and Phenotype in Head and Neck Cancer. Neoplasia. 2014 Oct 01 [PMID: 25379016] (CoIP, WB, Human)


Details:
1. p73 (IMG-259A) [WB, Fig.1 (HCT116-3 cells)].

More publications at http://www.novusbio.com/NB100-56674
Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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