Product Datasheet

p73 Antibody (5B1288) - BSA Free
NB100-56674

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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Publications: 29

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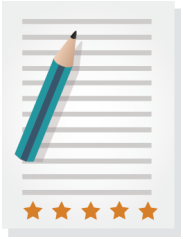
Updated 10/23/2024 v.20.1



NB100-56674

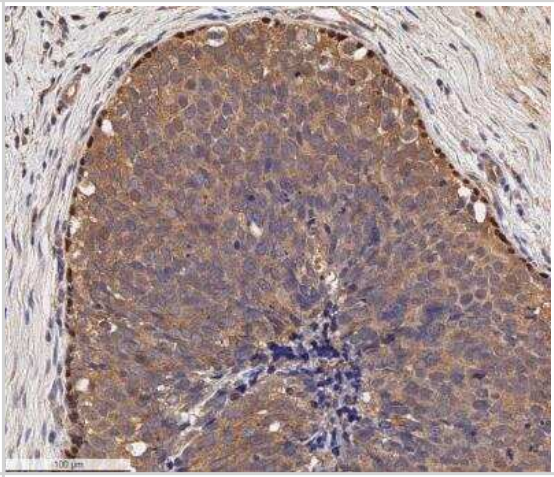
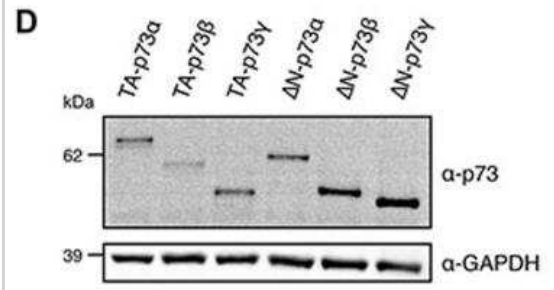
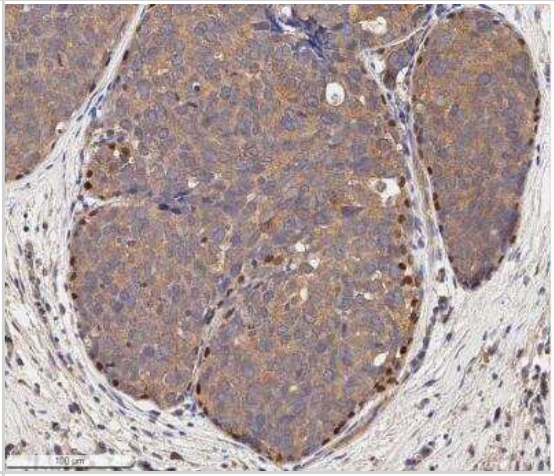
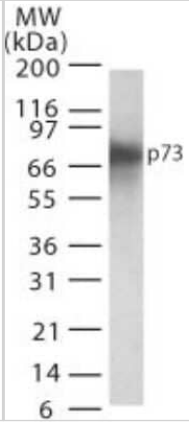
p73 Antibody (5B1288) - BSA Free

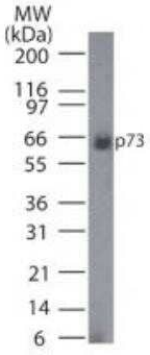
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	5B1288
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	73 kDa

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. 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).

Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1-3 ug/ml, Chromatin Immunoprecipitation 1:20 - 1:1000. Use reported in scientific literature (Accardi et al), Immunohistochemistry 1:100 - 1:200. Use reported in scientific literature (PMID 19816568), Immunocytochemistry/ Immunofluorescence 1:10-1:2000. Use reported in scientific literature (Sayan et al), Immunoprecipitation 1:20 - 1:1000. Use reported in scientific literature (Sayan et al), Immunohistochemistry-Paraffin 1:100 - 1:200, Chromatin Immunoprecipitation (ChIP) 1:20-1:1000
Application Notes	Immunoprecipitation details can be found in Sayan et al (2005). 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. 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.

Images

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.	
Western Blot: p73 Antibody (5B1288) [NB100-56674] - Analysis of the expression level of p73 isoforms. GAPDH was used as a loading control. Image collected and cropped by CiteAb from the following publication (https://www.oncotarget.com/article/11774) licensed under a CC-BY license.	
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.	

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.	

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. 2017-07-03 [PMID: 28674078] (Human)

de Abreu PA. Role of p53 in muscle wasting Thesis 2016-01-01 (IP, Mouse)

Leonard M K, Kommagani R, Payal V et al. DeltaNp63alpha regulates keratinocyte proliferation by controlling PTEN expression and localization. Cell Death Differ. 2011-12-01 [PMID: 21637289]

Jones Emma V, Dickman Mark J, Whitmarsh Alan J. Regulation of p73-mediated apoptosis by c-Jun N-terminal kinase. Biochem J. 2007-08-01 [PMID: 17521288]

Lin Yu-Li, Sengupta Shomit, Gurdziel Katherine et al. p63 and p73 transcriptionally regulate genes involved in DNA repair. PLoS Genet. 2009-10-01 [PMID: 19816568] (IF/IHC, Mouse)

Kommagani R, Whitlatch A, Leonard M K, Kadakia M P. p73 is essential for vitamin D-mediated osteoblastic differentiation. Cell Death Differ. 2010-03-01 [PMID: 19779497] (Human)

Rosenbluth Jennifer M, Mays Deborah J, Pino Maria F et al. A gene signature-based approach identifies mTOR as a regulator of p73. Mol Cell Biol. 2008-10-01 [PMID: 18678646] (Human)

Guerrieri F, Piconese S, Lacoste C et al. The sodium/iodide symporter NIS is a transcriptional target of the p53-family members in liver cancer cells. Cell Death Dis. 2013-01-01 [PMID: 24052075] (Human)

Venkatanarayan A, Raulji P, Norton W et al. IAPP-driven metabolic reprogramming induces regression of p53-deficient tumours in vivo Nature et al. 2014-11-17 [PMID: 25409149] (WB, Chemotaxis, 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. 2014-10-01 [PMID: 25379016] (Co-Immunoprecipitation, WB, Human)

Tomasini R, Seux M, Nowak J et al. TP53INP1 is a novel p73 target gene that induces cell cycle arrest and cell death by modulating p73 transcriptional activity. Oncogene. 2005-12-08 [PMID: 16044147]

Costanzo A, Merlo P, Pediconi N et al. DNA damage-dependent acetylation of p73 dictates the selective activation of apoptotic target genes. Mol Cell. 2002-01-01 [PMID: 11804596] (WB)

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

More publications at http://www.novusbio.com/NB100-56674

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Products Related to NB100-56674

NBL1-17209	p73 Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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