

Product Datasheet

p73 Antibody (5B429) - BSA Free NBP2-24737

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-24737

p73 Antibody (5B429) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	5B429
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Mouse p73 Antibody (5B429) - BSA Free (NBP2-24737) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF, Simple Western, IP and ChIP. Anti-p73 Antibody: Cited in 62 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	7161
Gene Symbol	TP73
Species	Human, Mouse, Rat
Specificity/Sensitivity	p73 antibody (clone 5B429) recognizes all of the TAp73 isoforms i.e. isoforms with an intact NH ₂ -terminal transactivation domain (Thottassery et al, 2006, PMID 16505115). Sayan et al 2005 (PMID 15781249) showed that p73 IMG-246/ NBP2-24737 reacted with all tested TAp73 isoforms but not deltaNp73 whereas p73 antibody clone 5B1288 (NB100-56674 / IMG-259A) showed reactivity against all p73 isoforms including delta Np73. Caspase-cleaved p73 fragments, including 55 kDa and 45 kDa, have been described in literature (Sayan et al, 2008).
Immunogen	This antibody was raised against full-length human p73. It reacts with an epitope that is located on the N-terminal region of human p73. It does not cross react with p53.
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), CyTOF-ready
Recommended Dilutions	Western Blot 2 ug/ml, Simple Western 1:25, Flow Cytometry 1 ug/mL. Use reported in scientific literature (PMID 21152443), Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 5-15 ug/ml, Immunohistochemistry-Frozen 5-15 ug/ml, Flow (Intracellular), Chromatin Immunoprecipitation (ChIP) 1:20-1:1000, CyTOF-ready

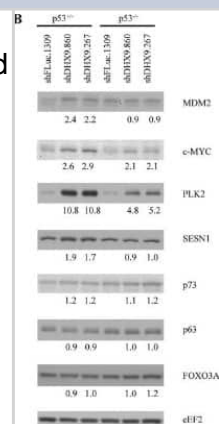


Application Notes

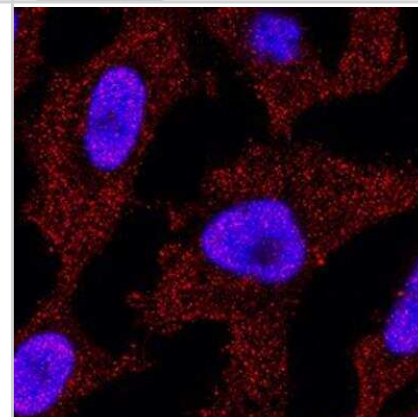
In Simple Western only 10 - 15 ul of the recommended dilution is used per data point.
See [Simple Western Antibody Database](#) for Simple Western validation: Tested in HeLa lysate 1.0 mg/mL, separated by Size, antibody dilution of 1:25, apparent MW was 49 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. This antibody is CyTOF ready.

Images

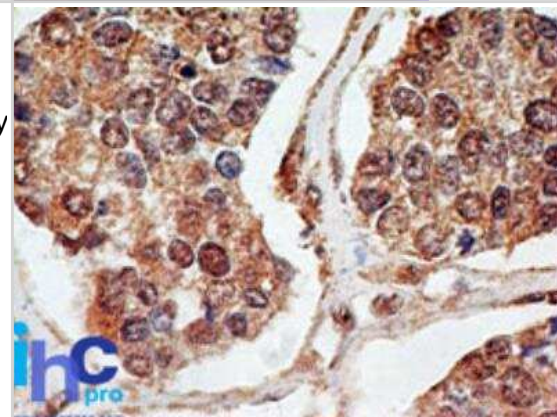
Western Blot: p73 Antibody (5B429) [NBP2-24737] - Consequences of DHX9 knockdown on protein levels of p53 targets in HCT116 p53+/+ and p53-/- cells. Western blot analysis of p53 transcriptional targets in HCT116 p53+/+ and p53-/- cells. Cells were harvested 6 days post-transduction and extracts were fractionated on 8% SDS-PAGE gels. All probing was performed on the same blot. Actin and eEF2 are used as loading controls. Quantitation of intensity levels of the proteins in the shDHX9 samples relative to the shFLuc. 1309 samples are indicated beneath each band. Image collected and cropped by CiteAb from the following publication (<https://www.oncotarget.com/article/15889/text/>), licensed under a CC-BY license.



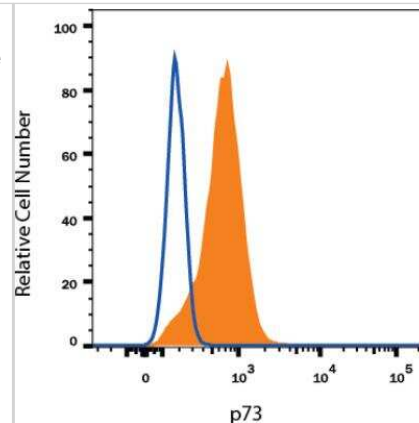
Immunocytochemistry/Immunofluorescence: p73 Antibody (5B429) [NBP2-24737] - p73 was detected in immersion fixed Hela human cell line using p73 [5B429] Monoclonal Antibody (Catalog # NBP2-24737) at 3 ug/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Staining was observed in the cytoplasm and in the nuclei.



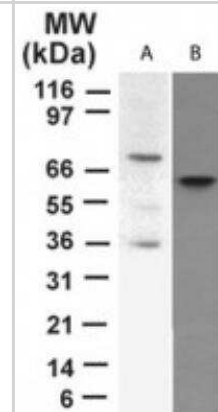
Immunohistochemistry-Paraffin: p73 Antibody (5B429) [NBP2-24737] - FFPE breast cancer probed with p73 antibody at 5 ug/ml. Human tissue was used for this test. Staining of tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



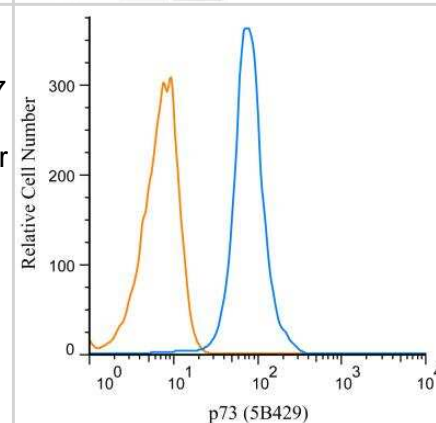
Flow Cytometry: p73 Antibody (5B429) [NBP2-24737] - Detection of p73 in Human HeLa Cell Line. Human HeLa cell line was stained with Mouse Anti- p73 Monoclonal Antibody (Catalog # NBP2-24737, filled histogram), or Mouse IgG1 isotype control (Catalog # MAB002, open histogram) followed by APC-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). Images may not be copied, printed or otherwise disseminated without express written permission of Novus Biologicals a bio-techne brand.



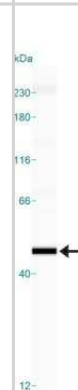
Western Blot: p73 Antibody (5B429) [NBP2-24737] - Analysis of p73 in A) transfected cell lysate and B) HeLa cell lysate at 2 ug/ml.



Flow (Intracellular): p73 Antibody (5B429) [NBP2-24737] - An intracellular stain was performed on HeLa cells with pan p73 (5B429) antibody NBP2-24737 (blue) and a matched isotype control NBP2-27287 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes, followed by mouse F(ab)2 IgG (H+L) APC-conjugated secondary antibody (F0101B, R&D Systems).



Simple Western: p73 Antibody (5B429) [NBP2-24737] - Lane view shows a specific band for p73 in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230kDa separation system. * Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.



Publications

- Oh ST, Stark A, Reichrath J. The p53 Signalling Pathway in Cutaneous Basal Cell Carcinoma: An Immunohistochemical Description *Acta Dermato Venereologica* 2020-03-31 [PMID: 32052850] (Western Blot)
- C?inap C, Bochi? OV, Vlad C et Al. Doubling the Dose of Bevacizumab Beyond Progression in Metastatic Colorectal Cancer-the Experience of a Tertiary Cancer Center *Front Pharmacol* 2021-03-11 [PMID: 33776758]
- Moceri P, Doyen D, Cerboni P et Al. Doubling the dose of clopidogrel restores the loss of antiplatelet effect induced by esomeprazole *Thromb Res* 2012-03-22 [PMID: 21777954]
- Acton A, Placzek WJ Myeloid Cell Leukemia 1 Small Molecule Inhibitor S63845 Synergizes with Cisplatin in Triple-Negative Breast Cancer *Cancers* 2023-09-08 [PMID: 37760451] (WB, Human)
- Suzuki K, Tange M, Yamagishi R et al. SMG6 regulates DNA damage and cell survival in Hippo pathway kinase LATS2-inactivated malignant mesothelioma *Cell death discovery* 2022-11-05 [PMID: 36335095] (ICC/IF, Human)
- Ahronian, L G, Driscoll, D R Et al. The p53R172H mutant does not enhance hepatocellular carcinoma development and progression. *PLoS One* 2015-04-18 [PMID: 25885474] (WB, Human)
- Malik N, Yan H, Yang HH et al. CFBF cooperates with p53 to maintain TAp73 expression and suppress breast cancer *PLoS genetics* 2021-05-01 [PMID: 33945523] (WB, Human)
- Widden H, Kaczmarczyk A, Subedi A et al. MCL1 binds and negatively regulates the transcriptional function of tumor suppressor p73 *Cell Death Dis* 2020-11-03 [PMID: 33144577] (WB)
- Wang C, Teo CR, Sabapathy K p53-Related Transcription Targets of TAp73 in Cancer Cells-Bona Fide or Distorted Reality? *Int J Mol Sci* 2020-02-17 [PMID: 32079264] (Chemotaxis)
- Yang L, Yang X, Tang Y et al. Inhibition of DNA-PK activity sensitizes A549 cells to X-ray irradiation by inducing the ATM-dependent DNA damage response *Mol Med Rep.* [PMID: 29620203] (WB, Human)
- Kumar S, Talluri S, Pal J et al. Role of apurinic/apyrimidinic nucleases in the regulation of homologous recombination in myeloma: mechanisms and translational significance. *Blood Cancer J.* 2018-09-25 [PMID: 30301882] (Chemotaxis, Human)
- Makino E, Gutmann V, Kosnopfel C et al. Melanoma cells resistant towards MAPK inhibitors exhibit reduced TAp73 expression mediating enhanced sensitivity to platinum-based drugs. *Cell Death Dis* 2018-09-11 [PMID: 30206212] (WB, Human)
- More publications at <http://www.novusbio.com/NBP2-24737>





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Products Related to NBP2-24737

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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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