

Product Datasheet

p53 Antibody - BSA Free NB200-171

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB200-171

p53 Antibody - BSA Free

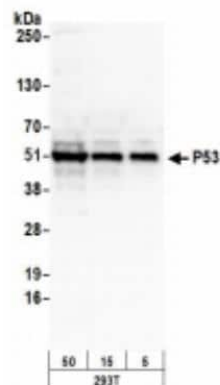
Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description	
Description	This antibody can be used as the primary antibody in a PLA assay with the following as complementing antibodies: NB100-305, NB100-322, NBP1-19098, NBP1-19097, NB100-376, NB100-1803, NB100-224, NB100-61615, NB100-77315, NB500-160, NB100-381, NB100-381, NB100-596, NB200-347, NB100-97835, NBP1-06527, NBP1-06515
Host	Rabbit
Gene ID	7157
Gene Symbol	TP53
Species	Human
Immunogen	The immunogen this antibody was made to, maps to a region between residues 50-100 of human tumor protein p53 using the SwissProt entry P04637 (GeneID 7157).
Notes	This antibody can be used as the primary antibody in a PLA assay with the following as complementing antibodies: NB100-305, NB100-322, NBP1-19098, NBP1-19097, NB100-376, NB100-1803, NB100-224, NB100-61615, NB100-77315, NB500-160, NB100-381, NB100-381, NB100-596, NB200-347, NB100-97835, NBP1-06527, NBP1-06515

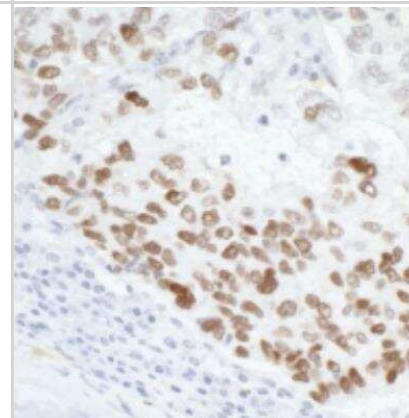
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation Sequencing, Knockdown Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Flow Cytometry 1.5 ug/10 ⁶ cells in 150 ul, Immunohistochemistry 1:1000 - 1:5000, Immunoprecipitation 2 - 5 ug/mg lysate, Immunohistochemistry-Paraffin 1:1000 - 1:5000, Chromatin Immunoprecipitation Sequencing, Knockdown Validated
Application Notes	Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections. ChIP-Seq 4 ug/30ug chromatin.

Images

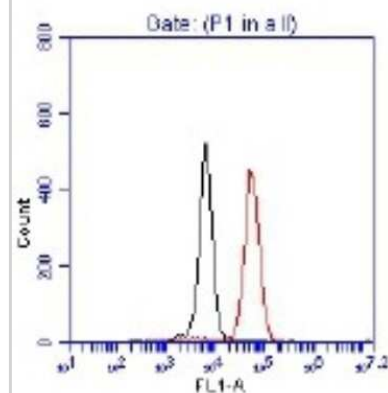
Western Blot: p53 Antibody [NB200-171] - Whole cell lysate (5, 15 and 50 ug) from 293T cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit antiP53 antibody used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



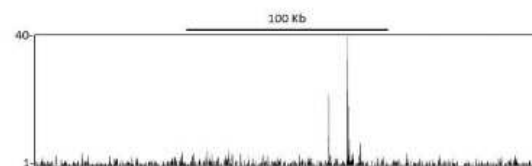
Immunohistochemistry-Paraffin: p53 Antibody [NB200-171] - FFPE section of human lung cancer. Antibody: Affinity purified rabbit anti-p53 used at 1:5,000 (0.2ug/ml). Detection: DAB



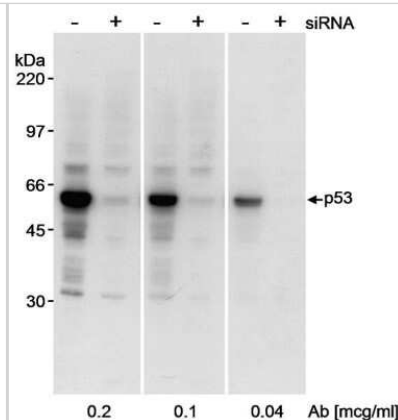
Flow Cytometry: p53 Antibody [NB200-171] - p53 in Jurkat Cells, fixed in 1.5% PFA, and permeabilized in 90% Methanol. 1 million cells were stained with 1.5 ug anti-KLH IgG control or anti-p53 NB200-171 and secondary FITC-conjugated goat anti-rabbit (in a 150ul reaction). Black-anti-KLH control IgG; Red- anti-HDMX.



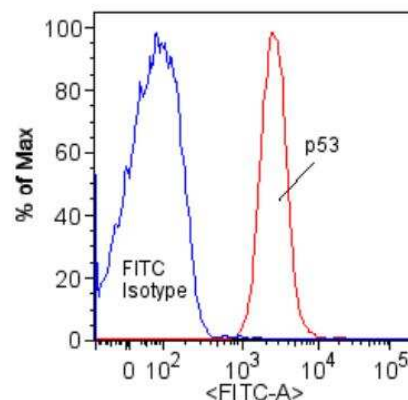
Chromatin Immunoprecipitation Sequencing: p53 Antibody [NB200-171] - Chromatin from MCF7 was immunoprecipitated with anti-p53 antibody and analyzed by DNA sequencing. The figure illustrates the peak distribution of p53 binding within a 250 Kb region of chromosome 6 as detected using anti-p53. ChIP-seq validation performed by Active Motif, Carlsbad, CA.



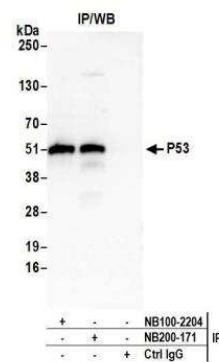
Western Blot: p53 Antibody [NB200-171] - Whole cell lysate (100 ug) from 293T cells that were treated with an siRNA for p53 (+) or mock treated (-). Antibody used at the indicated concentrations.



Flow Cytometry: p53 Antibody [NB200-171] - Baseline p53 expression in human lymphocytes. Image from verified customer review.



Immunoprecipitation: p53 Antibody [NB200-171] - Detection of human P53 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-P53 antibody NB200-171 used for IP at 3 ug per reaction. P53 was also immunoprecipitated by rabbit anti-P53 antibody NB100-2204. For blotting immunoprecipitated P53, NB200-171 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



Publications

Yan Q, Ding J, Khan SJ et al. Erratum: DTX3L E3 ligase targets p53 for degradation at poly ADP-ribose polymerase-associated DNA damage sites *iScience* 2024-07-19 [PMID: 39055911]

Seonhwa Kim, Kyeong-Bae Jeon, Hyo-Min Park, Jinju Kim, Chae-Min Lim, Do-Young Yoon Establishment and Characterization of Immortalized Human Dermal Papilla Cells Expressing Human Papillomavirus 16 E6/E7 *Journal of Microbiology and Biotechnology* 2024-03-28 [PMID: 37994116]

Yan Q, Ding J, Khan SJ et al. DTX3L E3 ligase targets p53 for degradation at poly ADP-ribose polymerase-associated DNA damage sites *iScience* 2023-04-21 [PMID: 37096048] (WB, Human)

Alexander KA, CotE A, Nguyen SC et al. p53 mediates target gene association with nuclear speckles for amplified RNA expression *Molecular cell* 2021-04-15 [PMID: 33823140]

Wilkes MC, Siva K, Chen J et al. Diamond Blackfan anemia is mediated by hyperactive Nemo-like kinase *Nat Commun* 2020-07-03 [PMID: 32620751] (FLOW, Human)

Details:

Cell surface FC

Wan J, Block S, Scribano CM et al. Mad1 destabilizes p53 by preventing PML from sequestering MDM2 *Nature communications* 2019-04-04 [PMID: 30948704] (WB, Human)

Shultz LD, Saito Y, Najima Y et al. Generation of functional human T-cell subsets with HLA-restricted immune responses in HLA class I expressing NOD/SCID/IL2r gamma(null) humanized mice. *Proc Natl Acad Sci U S A* 2010-07-20 [PMID: 20615947]

Wang SP, Wang WL, Chang YL et al. p53 controls cancer cell invasion by inducing the MDM2-mediated degradation of Slug. *Nat Cell Biol* 2009-06-01 [PMID: 19448627]

Tsai KW, Tseng HC, Lin WC. Two wobble-splicing events affect ING4 protein subnuclear localization and degradation. *Exp Cell Res* 2008-10-15 [PMID: 18775696]

Spurlock CF, Gass HM, Bryant CJ et al. Methotrexate-mediated inhibition of nuclear factor kB activation by distinct pathways in T cells and fibroblast-like synoviocytes *Rheumatology (Oxford)* 2014-08-12 [PMID: 25118313]

Spurlock CF, Tossberg JT, Matlock BK et al. Methotrexate inhibits NF-kB activity via lincRNA-p21 induction *Arthritis & rheumatology* 2014-07-30 [PMID: 25077978]

Shao L, Fujii H, Colmegna I et al. Deficiency of the DNA repair enzyme ATM in rheumatoid arthritis. *J Exp Med*;206 (6):1435-1449. 2009-01-01 [PMID: 19451263]

More publications at <http://www.novusbio.com/NB200-171>



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Products Related to NB200-171

NB800-PC6	293 Whole Cell Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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