

Product Datasheet

p21/CIP1/CDKN1A Antibody - BSA Free NB100-1941

Unit Size: 1 ml

Store at 4C. Do not freeze.

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NB100-1941

p21/CIP1/CDKN1A Antibody - BSA Free

Product Information	
Unit Size	1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS, 0.2% gelatin

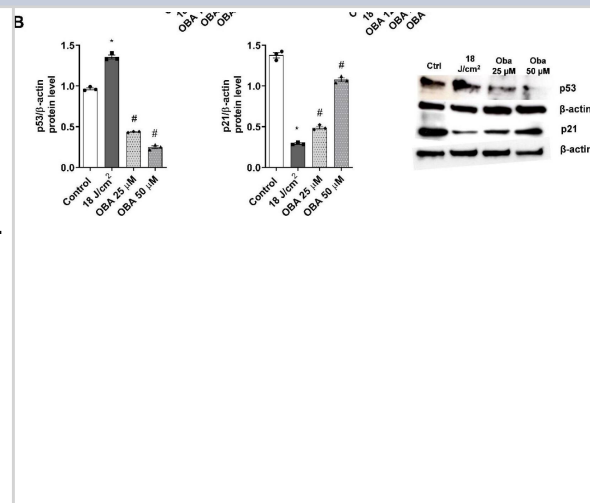
Product Description	
Description	Novus Biologicals Rabbit p21/CIP1/CDKN1A Antibody - BSA Free (NB100-1941) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-p21/CIP1/CDKN1A Antibody: Cited in 12 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1026
Gene Symbol	CDKN1A
Species	Human, Mouse, Rat
Specificity/Sensitivity	p21 (C19) reacts with p21(also designated WAF1/Cip1) of mouse, rat, and human origin.
Immunogen	Synthetic peptide corresponding to the C-terminal of human p21.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:200, Immunohistochemistry 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500

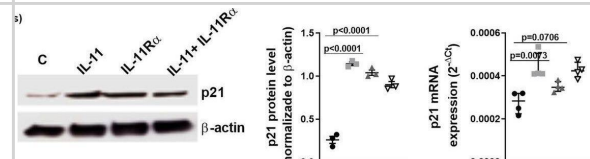


Images

Obacunone prevents SSR-induced p53 and p21 gene and protein expression modulations in a FT skin model. FT skin models were pretreated for 24 h with obacunone (12.5 uM, 25 uM, and 50 uM) and subjected to 18 J/cm² of SSR. (A) 24 h after irradiation, p21 and p53 mRNA levels were measured by real-time PCR. Data are expressed as 2- $\Delta\Delta$ Ct. (B) p21 and p53 levels were analyzed by Western blotting. Quantification was performed by densitometry and normalized to β -actin. Data are expressed as 2- $\Delta\Delta$ Ct. All data are expressed as a scatter plot with mean +/- standard error of the mean (SEM) of at least two independent experiments (n = 3). Multiple-comparison analysis of variance (ANOVA) was followed by the post hoc Bonferroni test. * p < 0.05 vs. control. # p < 0.05 vs. SSR stimulus. OBA: obacunone. Image collected and cropped by CiteAb from the following open publication (<https://www.mdpi.com/1422-0067/24/14/11484>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



rhIL-11 and soluble rhIL-11R α promotes time-dependent proliferation and senescence in human pulmonary artery endothelial cells (HPAEC) and smooth muscle cells (HPASMC). A HPAECs or B HPASMCs were isolated from control donor subjects and stimulated with rhIL-11 5 ng/ml, rhIL-11R α 10 ng/ml or its combination at indicated times. Experiments were done between passages 2–3. Cell proliferation was measured by the BrDU kit at 24 h, 48 h, 72 h and 96 h. Cell senescence was measured after 72 h of cell stimulation using β -galactosidase histology and P21 expression. Results were expressed as % senescence (β -galactosidase blue positive cells) relative to the total number of cells in each field. P21 expression was measured by quantitative PCR (qPCR) as 2- Δ Ct and western blot. Data are presented as scatter dot blot with median and interquartile range values (for primary cells, n = 3–4 control subjects performed in triplicate). P-values are based on the Kruskal–Wallis test and Dunn's post-hoc test for multiple comparison. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36376885>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Fukunaga T, Diaz-Hernandez M, Heller J et al. Runx1 overexpression induces early onset of intervertebral disc degeneration *Aging (Albany NY)* 2025-09-30 [PMID: 40932696]

J Milara, I Roger, P Montero, E Artigues, J Escrivá, J Cortijo IL-11 system participates in pulmonary artery remodeling and hypertension in pulmonary fibrosis *Respiratory Research*, 2022-11-15;23(1):313. 2022-11-15 [PMID: 36376885]

Ottone OK, Kim CJ, Collins JA, Risbud MV. The cGAS-STING Pathway Affects Vertebral Bone but Does Not Promote Intervertebral Disc Cell Senescence or Degeneration *Frontiers in Immunology* 2022-06-13 [PMID: 35769461]

Paula Montero, Inés Roger, Javier Milara, Julio Cortijo Damaging effects of UVA, blue light, and infrared radiation: in vitro assessment on a reconstructed full-thickness human skin *Frontiers in Medicine* 2023-12-01 [PMID: 38105899]

Montero P, Villarroel MJ, Roger I et al. Obacunone Photoprotective Effects against Solar-Simulated Radiation-Induced Molecular Modifications in Primary Keratinocytes and Full-Thickness Human Skin *International journal of molecular sciences* 2023-07-14 [PMID: 37511243] (WB, Human)

Wei F, Tuong ZK, Omer M et al. A novel multifunctional radioprotective strategy using P7C3 as a countermeasure against ionizing radiation-induced bone loss *Bone research* 2023-06-29 [PMID: 37385982] (IHC-Fr, Rat)

Roger I, Montero P, Milara J, Cortijo J Pirfenidone and Nintedanib Attenuates Pulmonary Artery Endothelial and Smooth Muscle Cells Remodeling Induced by IL-11 Available at SSRN 4432241 2023-05-08 (WB, Human)

Risbud M, Novais E, Tran V, et al. Long-term treatment with senolytic drugs Dasatinib and Quercetin ameliorates age-dependent intervertebral disc degeneration in mice *Nat Commun* 2021-09-04 [PMID: 34480023]

Gan L, Liu D, Liu J et al. CD38 deficiency alleviates Ang II-induced vascular remodeling by inhibiting small extracellular vesicle-mediated vascular smooth muscle cell senescence in mice *Signal transduction and targeted therapy* 2021-06-11 [PMID: 34112762] (IHC-P, WB, Mouse)

Novais E J, Tran V A et al. Comparison of inbred mouse strains shows diverse phenotypic outcomes of intervertebral disc aging. *Aging Cell* 2020-01-05 [PMID: 32319726] (IF/IHC, Mouse)

Novais EM, Diekman BO, Shapiro IM, Risbud MV. p16Ink4a deletion in cells of the intervertebral disc affects their matrix homeostasis and senescence associated secretory phenotype without altering onset of senescence *Matrix Biol.* 2019-02-24 [PMID: 30811968] (IHC-P, Mouse)

Lin S, Ho W, Wang Y et al. Histone methyltransferase Suv39h1 attenuates high glucose-induced fibronectin and p21 WAF1 in mesangial cells *Int J Biochem Cell Biol.* 2016-06-29 [PMID: 27373678]

More publications at <http://www.novusbio.com/NB100-1941>





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Products Related to NB100-1941

NBL1-09049	p21/CIP1/CDKN1A Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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