

Product Datasheet

p21/CIP1/CDKN1A Antibody (WA-1) NBP2-29463

Unit Size: 0.1 mg

Store at 4C.

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NBP2-29463

p21/CIP1/CDKN1A Antibody (WA-1)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	WA-1
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	21 kDa

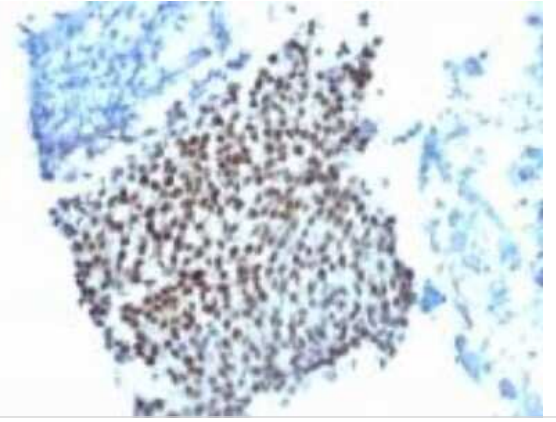
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-33084) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	1026
Gene Symbol	CDKN1A
Species	Human, Mouse, Chimpanzee, Monkey
Specificity/Sensitivity	This monoclonal antibody recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This monoclonal antibody is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors. p21WAF1 is a specific inhibitor of cdks and a tumor suppressor involved in the pathogenesis of a variety of malignancies. The expression of this gene acts as an inhibitor of the cell cycle during G1 phase and is tightly controlled by the tumor suppressor protein p53. Its expression is induced by the wild type, but not mutant, p53 suppressor protein. Normal cells generally display a rather intense nuclear p21 expression. Loss of p21 expression has been reported in many carcinomas (gastric carcinoma, non-small cell lung carcinoma, thyroid carcinoma). In ELISA, monoclonal antibody WA-1 is useful either as a solid phase or for detection of p21 protein.
Immunogen	Human recombinant p21/CIP1/CDKN1A protein (Uniprot: P38936)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry 0.5-1ug/ml, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml
Application Notes	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. Use in Western blot reported in scientific literature (PMID 28137862).



Images

Immunohistochemistry-Paraffin: p21/CIP1/CDKN1A Antibody (WA-1) [NBP2-29463] - Formalin-fixed, paraffin-embedded human bladder carcinoma stained with p21 Monoclonal Antibody (WA-1).



Publications

Inés Muela-Zarzuela, Juan Miguel Suarez-Rivero, Andrea Gallardo-Orihuela, Chun Wang, Kumi Izawa, Marta de Gregorio-Procopio, Isabelle Couillin, Bernhard Ryffel, Jiro Kitaura, Alberto Sanz, Thomas von Zglinicki, Gabriel Mbalaviele, Mario D Cordero NLRP1 inflammasome promotes senescence and senescence-associated secretory phenotype. *Inflammation research : official journal of the European Histamine Research Society ... [et al.]* 2024-06-21 [PMID: 38907167]

Silke Kiessling, Lou Beaulieu-Laroche, Ian D. Blum, Dominic Landgraf, David K. Welsh, Kai-Florian Storch, Nathalie Labrecque, Nicolas Cermakian Enhancing circadian clock function in cancer cells inhibits tumor growth *BMC Biology* 2017-02-14 [PMID: 28196531]

Kim JM, Dziobaka S, Yoon YE et al. OR2H2 Activates CAMKK β -AMPK-Autophagy Signaling Axis and Suppresses Senescence in VK2/E6E7 Cells *Pharmaceuticals (Basel)* 2023-08-29 [PMID: 37765029] (Western Blot, In vivo assay)

Exline JE Targeting the Subacute Progression of Hippocampal Cellular Senescence Following Repetitive Mild Traumatic Brain Injury Thesis 2023-01-01

Pathmanapan, S;Poon, R;De Renshaw, TB;Nadesan, P;Nakagawa, M;Seesankar, GA;Ho Loe, AK;Zhang, HH;Guinovart, JJ;Duran, J;Newgard, CB;Wunder, JS;Alman, BA; Mutant IDH regulates glycogen metabolism from early cartilage development to malignant chondrosarcoma formation *Cell reports* 2023-06-01 [PMID: 37267108] (IHC, Mouse, Human)

Muela-Zarzuela IS, Suarez-Rivero JM, Gallardo-Orihuela A et al. NLRP1 inflammasome modulates senescence and senescence-associated secretory phenotype *bioRxiv : the preprint server for biology* 2023-02-10 [PMID: 36798300] (WB, Human)

Li X, Kaur N, Albahrani ME et al. Crosstalk between Protein Kinase C alpha and Transforming Growth Factor beta Signaling Mediated by Runx2 in Intestinal Epithelial Cells *The Journal of biological chemistry* 2023-02-13 [PMID: 36791912] (WB, Human)

Kim JS, Lee HL, Jeong JH et al. OR2AT4, an Ectopic Olfactory Receptor, Suppresses Oxidative Stress-Induced Senescence in Human Keratinocytes *Antioxidants (Basel, Switzerland)* 2022-11-03 [PMID: 36358552] (WB, Human)

Details:

Dilution used in ICC 1:200

Kaur N, Lum M, Lewis RE et al. A novel anti-proliferative PKCalpha-Ras-ERK signaling axis in intestinal epithelial cells *The Journal of biological chemistry* 2022-06-10 [PMID: 35697074] (WB)

Saleh T, Alhesa A, Al-Balas M et al. Expression of therapy-induced senescence markers in breast cancer samples upon incomplete response to neoadjuvant chemotherapy *Bioscience reports* 2021-05-28 [PMID: 33948615] (IF/IHC, Human)

Kaczorowski A, Tolstov Y, Falkenstein M et al. Rearranged ERG confers robustness to prostate cancer cells by subverting the function of p53 *Urol. Oncol.* 2020-07-13 [PMID: 32674955] (WB, Human)

Couture R, Mora N, Al Bittar S, et al. Luteolin modulates gene expression related to steroidogenesis, apoptosis, and stress response in rat LC540 tumor Leydig cells *Cell Biol. Toxicol.* 2019-06-14 [PMID: 31201582]

More publications at <http://www.novusbio.com/NBP2-29463>



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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)
NBP2-22976	Recombinant Human p21/CIP1/CDKN1A His Protein

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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