

# Product Datasheet

## **p21/CIP1/CDKN1A Antibody (DCS-60.2) - Azide and BSA Free** **NBP2-47781-0.1mg**

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-47781-0.1mg**

p21/CIP1/CDKN1A Antibody (DCS-60.2) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	DCS-60.2
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS
Target Molecular Weight	21 kDa

Product Description	
Description	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-44525).  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 (Negative), Rat (Negative)
Reactivity Notes	Does not react with Mouse or Rat.
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).
Immunogen	Recombinant full-length human p21/CIP1/CDKN1A protein (Uniprot: P38936)

Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Immunofluorescence
Recommended Dilutions	Western Blot 1 - 2 ug/ml, Simple Western 10 ug/ml, Flow Cytometry 0.5 - 1 ug/million cells in 0.1 ml, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 2 - 4 ug/ml, Immunofluorescence 1 - 2 ug/ml, CyTOF-ready

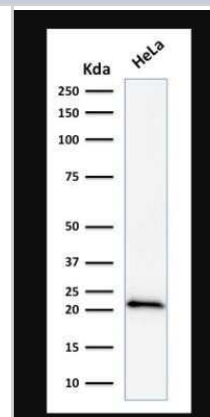


**Application Notes**

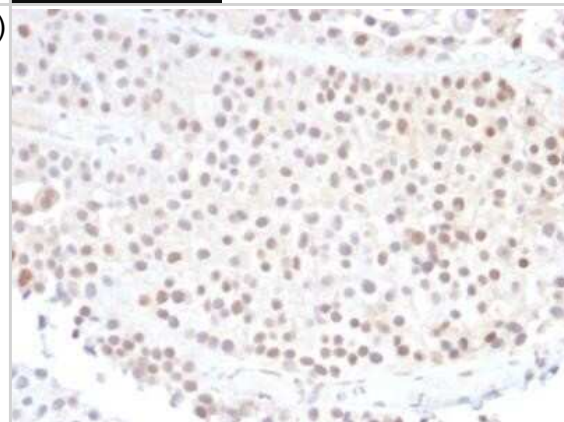
Use in Western Blot reported in scientific literature (PMID: 33086074).  
 Immunohistochemistry (Formalin-fixed): 2-4ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.  
 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: antibody dilution of 10 ug/mL

**Images**

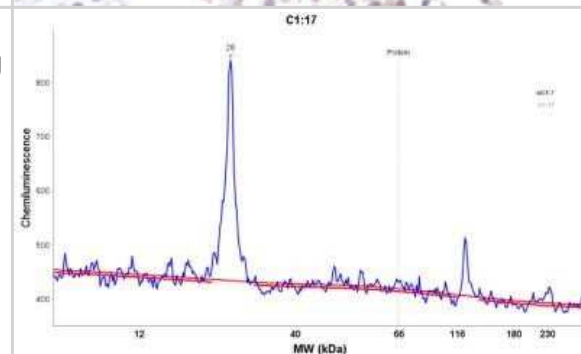
Western Blot: p21/CIP1/CDKN1A Antibody (DCS-60.2) - Azide and BSA Free [NBP2-47781] - Analysis of human HeLa cell lysate using p21/CIP1/CDKN1A Antibody (DCS-60.2).



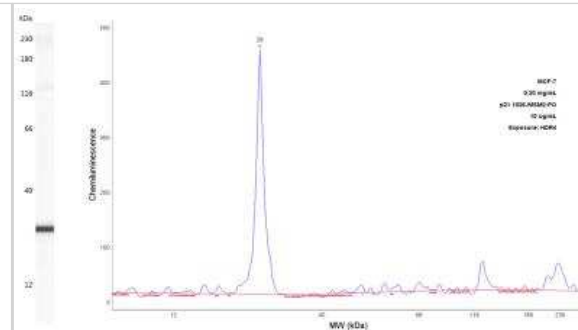
Immunohistochemistry-Paraffin: p21/CIP1/CDKN1A Antibody (DCS-60.2) - Azide and BSA Free [NBP2-47781] - Human Bladder Carcinoma stained with p21/CIP1/CDKN1A Antibody (DCS-60.2).



Simple Western: p21/CIP1/CDKN1A Antibody (DCS-60.2) - Azide and BSA Free [NBP2-47781] - Electropherogram image of the corresponding Simple Western lane. p21/CIP1/CDKN1A antibody was used at 10 ug/ml dilution of MCF-7 lysates(s) respectively.



Simple Western: p21/CIP1/CDKN1A Antibody (DCS-60.2) - Azide and BSA Free [NBP2-47781] - Lane view shows a specific band for p21/CIP1/CDKN1A using 2 mg/mL of MCF-7 cell lysate and 10 ug/mL antibody dilution. Electropherogram image of corresponding Simple Western lane view. Image reported by internal validation.



Simple Western: p21/CIP1/CDKN1A Antibody (DCS-60.2) - Azide and BSA Free [NBP2-47781] - Simple Western lane view shows a specific band for p21/CIP1/CDKN1A in 0.2 mg/ml of MCF-7 lysate(s). This experiment was performed under reducing conditions using the 12-230 kDa separation system.





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### **Products Related to NBP2-47781-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP2-22976	Recombinant Human p21/CIP1/CDKN1A His Protein

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### **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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