

# Product Datasheet

## p16INK4a/CDKN2A Antibody - BSA Free NBP3-06986

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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Updated 3/4/2026 v.20.1

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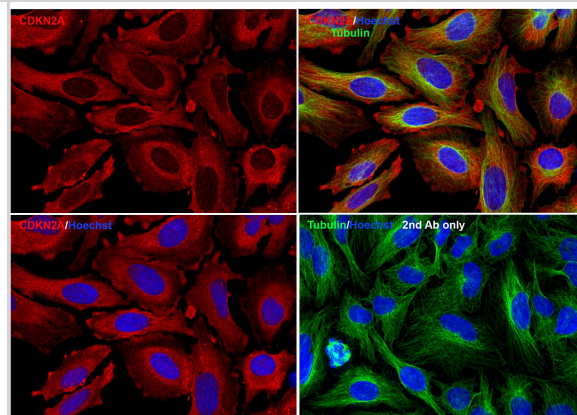
**NBP3-06986**

p16INK4a/CDKN2A Antibody - BSA Free

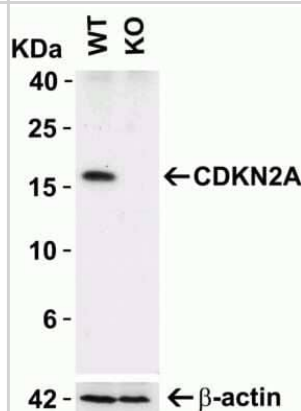
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Peptide affinity purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	17 kDa
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	1029
<b>Gene Symbol</b>	CDKN2A
<b>Species</b>	Human
<b>Specificity/Sensitivity</b>	Human CDKN2A has 6 isoforms, including isoform 1 (156aa, 17kD), isoform 2 (105aa, 11kD), isoform 3 (116aa, 12kD), isoform 5 (167aa, 18kD), isoform tumor suppressor ARF (132aa, 14kD) and isoform smARF (85aa, 9kD). Mouse CDKN2A has 4 isoforms, including isoform 1 (168aa, 18kD), isoform 2 (125aa, 14kD), isoform tumor suppressor ARF (169aa, 19kD) and isoform smARF (125aa, 14kD). Rat CDKN2A has two isoforms, including isoform 1 (159aa, 17kD) and isoform ARF (160aa, 17kD). NBP3-06986 can detect only human isoforms 1 and 5, but cannot detect mouse and rat.
<b>Immunogen</b>	Antibody was raised against a peptide corresponding to 17 amino acids near the carboxy terminus of human CDKN2A. The immunogen is located within the last 50 amino acids of CDKN2A.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockout Validated
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/mL, ELISA, Immunohistochemistry 5 ug/mL, Immunocytochemistry/ Immunofluorescence 20 ug/mL, Immunohistochemistry-Paraffin 5 ug/ml, Knockout Validated

## Images

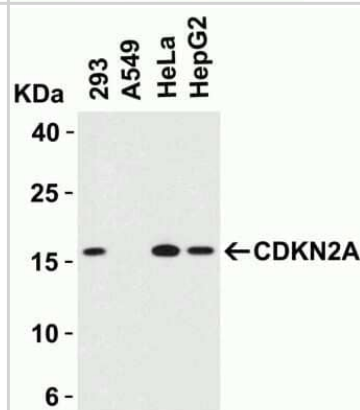
**Immunocytochemistry/ Immunofluorescence: p16INK4a/CDKN2A Antibody - BSA Free [NBP3-06986] - Validation of p16INK4a/CDKN2A In HeLa Cells.** Immunofluorescent analysis of methanol-fixed HeLa cells labeling p16INK4a/CDKN2A with at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/1000 dilution (red) and Hoechst staining (blue). Alpha tubulin was stained with anti-alpha tubulin antibody following by goat anti-mouse IgG secondary antibody (green). Images were captured with confocal microscopy.



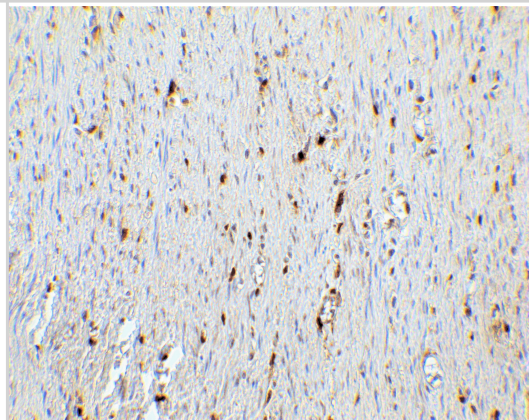
**Western Blot: p16INK4a/CDKN2A Antibody [NBP3-06986] - Loading: 10 ug of 293 WT cell lysates or CDKN2A KO cell lysates.** Antibodies: CDKN2A, NBP3-06986 (2 ug/mL) and beta-actin (1 ug/mL), 1 h incubation at RT in 5% NFDm/TBST. Secondary: Goat



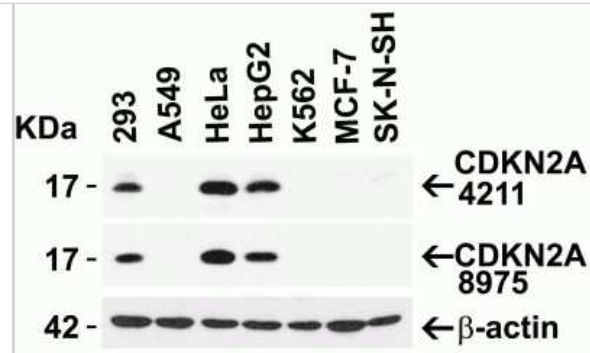
**Western Blot: p16INK4a/CDKN2A Antibody [NBP3-06986] - Loading: 15 ug of lysates per lane.** Antibodies: NBP3-06986 (2 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



**Immunohistochemistry: p16INK4a/CDKN2A Antibody - BSA Free [NBP3-06986] - Validation of p16INK4a/CDKN2A in Human Colon Tissue.** Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-p16INK4a/CDKN2A antibody at 5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Western Blot: p16INK4a/CDKN2A Antibody [NBP3-06986] - Loading: 15 ug of lysates per lane. Antibodies: CDKN2A (2 ug/mL), NBP3-06986 (2 ug/mL) and beta-actin (1 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.





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### **Products Related to NBP3-06986**

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-35199-10ug	Recombinant Human p16INK4a/CDKN2A 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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