

# Product Datasheet

## **p27/Kip1 Antibody (SX53G8) - Azide and BSA Free NBP2-34718-0.1mg**

Unit Size: 0.1 mg

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

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Updated 7/16/2024 v.20.1

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**NBP2-34718-0.1mg**

p27/Kip1 Antibody (SX53G8) - 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	SX53G8
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS

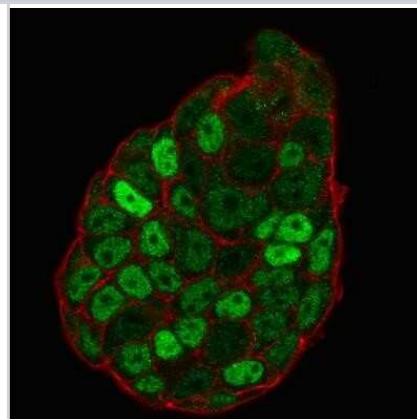
Product Description	
Description	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-32889).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	1027
Gene Symbol	CDKN1B
Species	Human, Mouse, Rat, Monkey
Specificity/Sensitivity	This monoclonal antibody recognizes a 27kDa protein, identified as the p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors. In Western blotting of cell lysates from 7 human breast cancer cell lines (ZR75-1, ZR75-30, MCF-7, MDAMB453, T47D, CAL51, 734B), the antibody labels a single band corresponding to p27Kip1. It functions as a negative regulator of G1 progression and has been proposed to function as a possible mediator of TGF- induced G1 arrest. p27Kip1 is a candidate tumor suppressor gene. Reportedly, low p27 expression has been associated with unfavorable prognosis in renal cell carcinoma, colon carcinoma, breast carcinomas, non-small-cell lung carcinoma, hepatocellular carcinoma, multiple myeloma, and lymph node metastases in papillary carcinoma of the thyroid, as well as a more aggressive phenotype in carcinoma of the cervix.
Immunogen	Purified GST-p27 fusion protein of human origin (Uniprot: P46527)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready
Recommended Dilutions	Western Blot 0.5-1ug/ml, Flow Cytometry 0.5-1ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 0.5-1ug/ml, Immunohistochemistry-Paraffin 0.5-1ug/ml, CyTOF-ready
Application Notes	Immunohistochemistry (Formalin-fixed): 0.25-0.5ug/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.



## Images

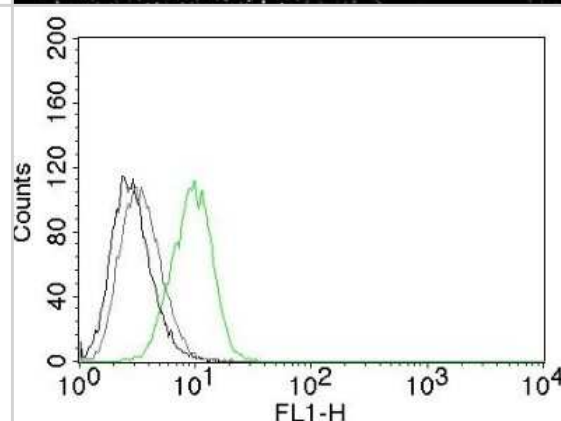
Immunocytochemistry/Immunofluorescence: p27/Kip1 Antibody (SX53G8) - Azide and BSA Free [NBP2-34718] - Analysis of PFA-fixed MCF-7 cells labeling p27 with p27/Kip1 Antibody (SX53G8) followed by Goat anti-Mouse IgG-CF488 (Green). Membrane is stained with Phalloidin-CF640.



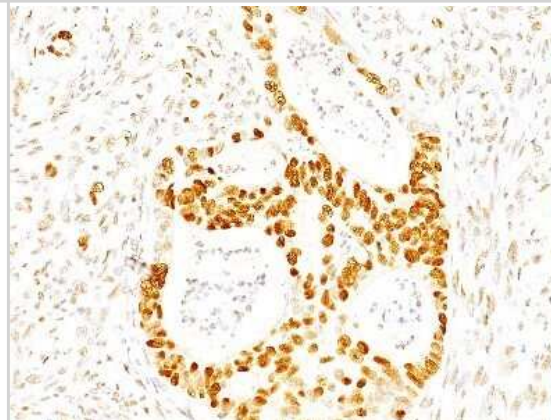
Immunohistochemistry-Paraffin: p27/Kip1 Antibody (SX53G8) - Azide and BSA Free [NBP2-34718] - p27/Kip1 antibody in CODEX stain of human bone marrow tissue. Image from verified customer review.



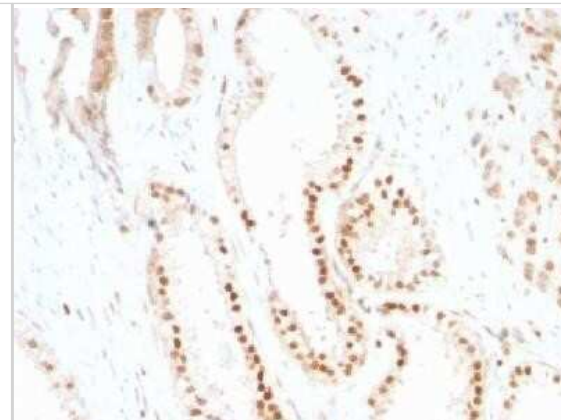
Flow Cytometry: p27/Kip1 Antibody (SX53G8) - Azide and BSA Free [NBP2-34718] - Flow Cytometry of human p27/Kip1 on HeLa cells. Black: cells alone; Grey: Isotype Control; Green: CF488-labeled p27/Kip1 Monoclonal Antibody (SX53G8).



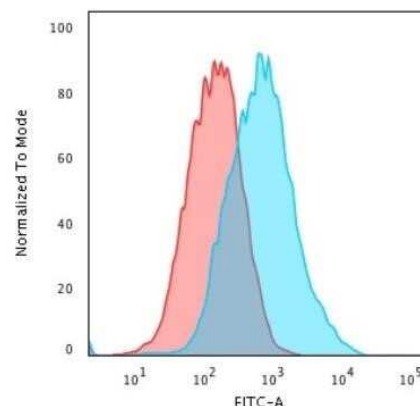
Immunohistochemistry-Paraffin: p27/Kip1 Antibody (SX53G8) - Azide and BSA Free [NBP2-34718] - Formalin-paraffin human colon stained with p27 MAb (SX53G8)



Immunohistochemistry-Paraffin: p27/Kip1 Antibody (SX53G8) - Azide and BSA Free [NBP2-34718] - Formalin-fixed, paraffin-embedded human prostate Carcinoma stained with p27 Monoclonal Antibody (sx53G8)



Flow Cytometry: p27/Kip1 Antibody (SX53G8) - Azide and BSA Free [NBP2-34718] - Analysis of PFA-fixed MCF-7 cells using p27/Kip1 Antibody (SX53G8) followed by Goat anti- Mouse- IgG-CF488 (Blue); Isotype Control (Red).





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### **Products Related to NBP2-34718-0.1mg**

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)
NBP1-72503-100ug	Recombinant Human p27/Kip1 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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