Product Datasheet

p27/Kip1 Antibody (SX53G8)
NBP2-32889-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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Publications: 1

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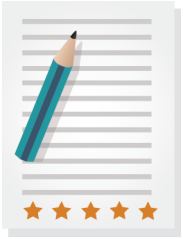
Updated 7/16/2024 v.20.1



NBP2-32889-0.1mg

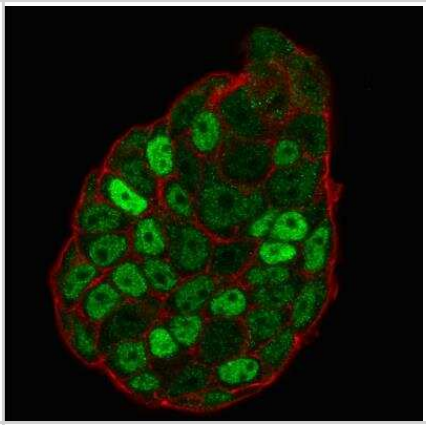
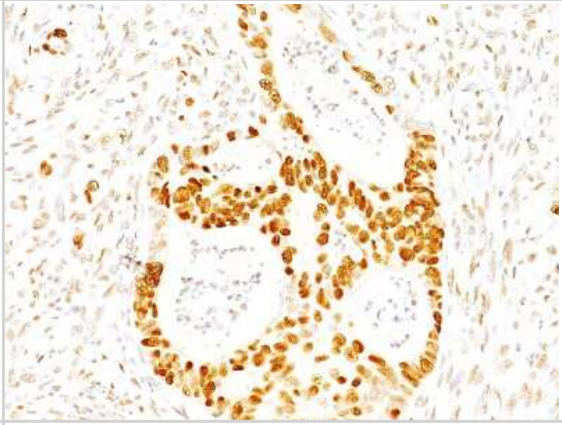
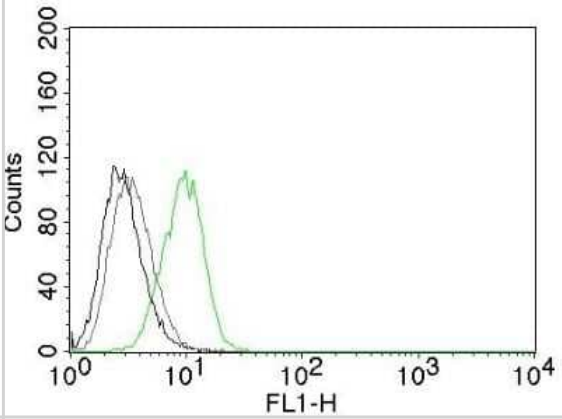
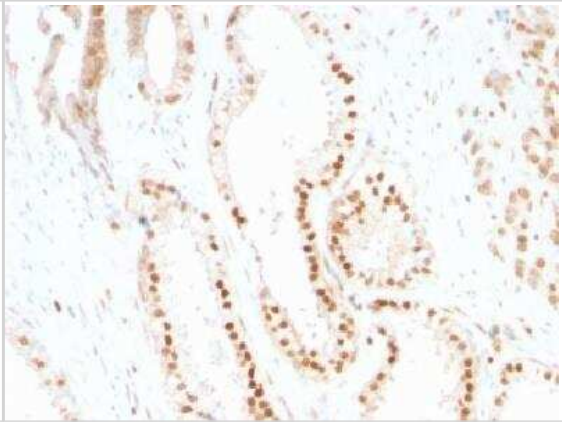
p27/Kip1 Antibody (SX53G8)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	SX53G8
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA

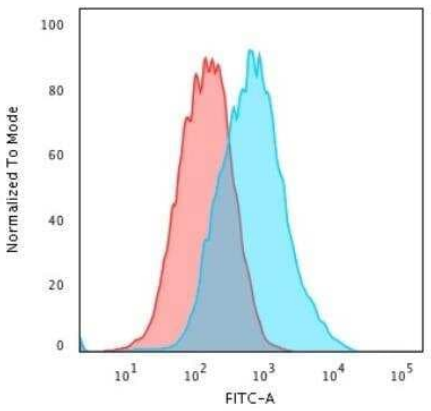
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-34718) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 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
Recommended Dilutions	Western Blot 0.5-1ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 0.25-0.5 ug/ml
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.

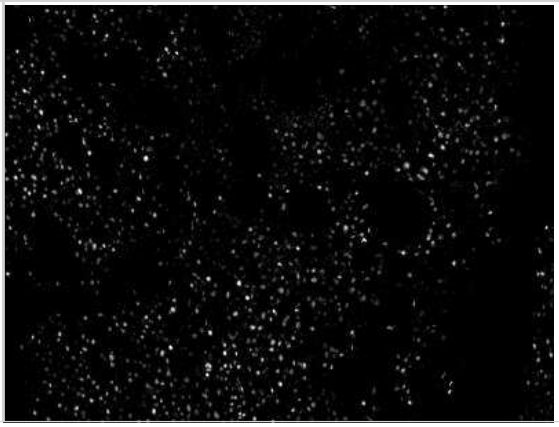
Images

Immunocytochemistry/Immunofluorescence: p27/Kip1 Antibody (SX53G8) [NBP2-32889] - 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) [NBP2-32889] - Formalin-paraffin human colon stained with p27 MAb (SX53G8)	
Flow Cytometry: p27/Kip1 Antibody (SX53G8) [NBP2-32889] - Flow Cytometry of human p27/Kip1 on HeLa cells. Black: cells alone; Grey: Isotype Control; Green: AF488-labeled p27/Kip1 Mouse Monoclonal Antibody (SX53G8).	
Immunohistochemistry-Paraffin: p27/Kip1 Antibody (SX53G8) [NBP2-32889] - Formain-fixed, paraffin-embedded human prostate Carcinoma stained with p27 Monoclonal Antibody (sx53G8)	

Flow Cytometry: p27/Kip1 Antibody (SX53G8) [NBP2-32889] - Analysis of PFA-fixed MCF-7 cells using p27/Kip1 Antibody (SX53G8) followed by Goat anti- Mouse- IgG-CF488 (Blue); Isotype Control (Red).



Immunohistochemistry-Paraffin: p27/Kip1 Antibody (SX53G8) [NBP2-32889] - p27/Kip1 antibody in CODEX stain of human bone marrow tissue. Image from verified customer review.



Publications

Gao J, Wu L, Wang Y et al. Knockdown of Cxcl10 Inhibits Mesangial Cell Proliferation in Murine Habu Nephritis Via ERK Signaling Cell. Physiol. Biochem. 2017-08-15 [PMID: 28810249] (WB, Mouse)

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-32889-0.1mg

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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