Product datasheet

Anti-P27/KIP1/CDKN1B Antibody

Catalog Number: *PB0075*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-P27/KIP1/CDKN1B Antibody
Gene Name	CDKN1B
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human P27 KIP 1 recombinant protein (Position: S10-T198). Human P27 KIP 1 shares 87% amino acid (aa) sequence identity with mouse P27 KIP 1.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	27 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400 Flow Cytometry (Fixed): 1:50-200

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Cyclin-dependent kinase inhibitor 1B (p27KIP1), also known as KIP1 or P27, is an enzyme inhibitor that in humans is encoded by the CDKN1B gene. It encodes a protein which belongs to the Cip/Kipfamily of cyclin dependent kinase (Cdk) inhibitor proteins. It is mapped to 12p13.1. p27KIP1 can inhibit both CDK activation and the kinase activity of assembled and activated cyclin-CDK. The function of p27KIP1 is associated with an aggressive phenotype in human breast cancer. Downregulation of p27KIP1 by CK2-alpha-prime is necessary for development of agonist- and stress-induced cardiac hypertrophy.

Reference

Anti-P27/KIP1/CDKN1B Antibody 被引用在11文献中。

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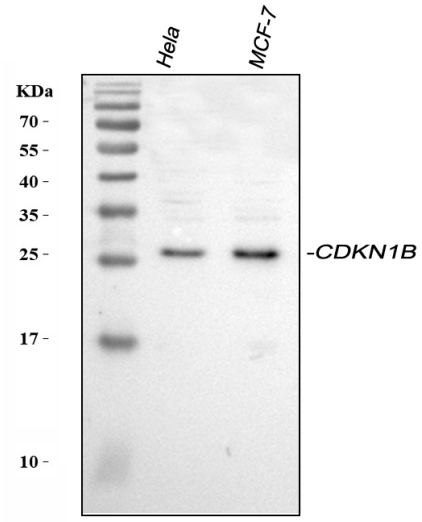
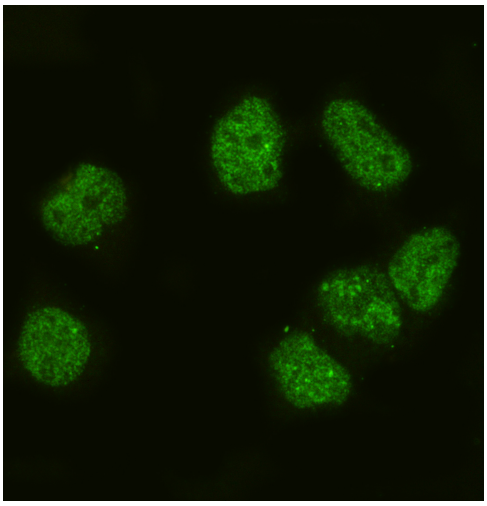
Selected Validation Data



Western blot analysis of anti- CDKN1B antibody (PB0075). The sample well of each lane was loaded with 30ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human MCF-7 whole cell lysates.
Use rabbit anti- CDKN1B 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog#EK1002). A specific band was detected for CDKN1B at approximately 27KD. The expected band size for CDKN1B is at 27KD.



IF analysis of P27/KIP1/CDKN1B using anti-P27/KIP1/CDKN1B antibody (PB0075).
P27/KIP1/CDKN1B was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-P27/KIP1/CDKN1B Antibody (PB0075) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody.

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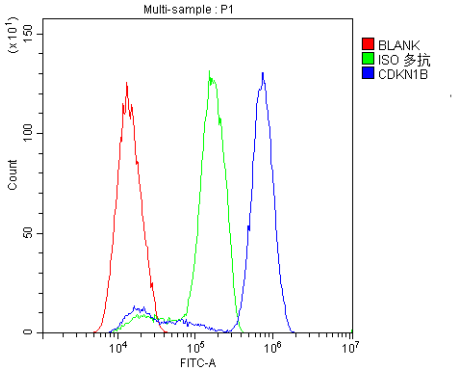

Flow Cytometry analysis of SiHa cells using anti-P27/KIP1/CDKN1B antibody (PB0075).
Overlay histogram showing SiHa cells stained with PB0075 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-P27/KIP1/CDKN1B Antibody (PB0075) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.