

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°C as supplied.

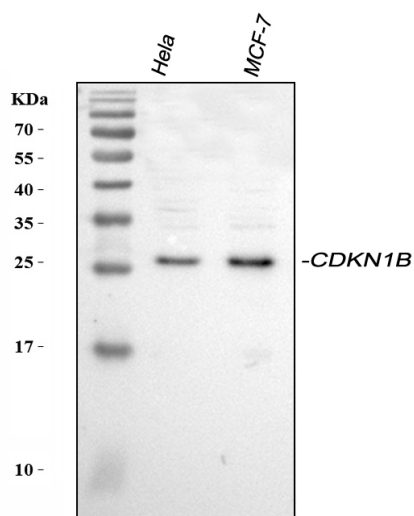
Background Information

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/Kip family 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9文献中。

Selected Validation Data

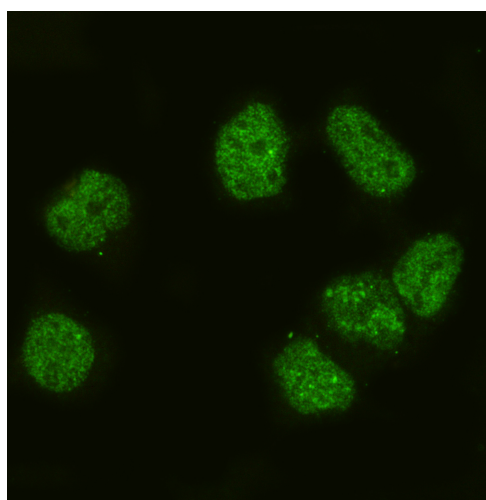


Western blot analysis of anti- CDKN1B antibody (PB0075). The sample well of each lane was loaded with 30ug of sample under reducing conditions.

Lane 1: human HeLa whole cell lysates,

Lane 2: human MCF-7 whole cell lysates.

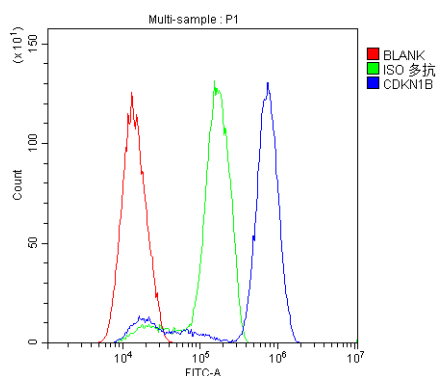
Use rabbit anti- CDKN1B 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog#EK1002). A specific band was detected for CDKN1B at approximately 27KD. The expected band size for CDKN1B is at 27KD.



ICC/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.

Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody.



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. Fluoro488 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.