

Anti-p27 KIP 1/CDKN1B Antibody

Catalog Number: PA1063

About CDKN1B

Cyclin-dependent kinase inhibitor 1B (CDKN1B), also known as p27 (KIP1), is a cyclin-dependent kinase (Cdk) inhibitor implicated in G1 phase arrest, which negatively regulates G1 phase progression in response to TGF beta and represents a tumor suppressor gene. Human p27 gene is mapped to chromosome 12p12.3 p27 can be both an inhibitor and a substrate of cyclin E-CDK2. p27, abundant in quiescent cells and drops after serum stimulation, plays a role in mediating VSMC hypertrophy. p27 degradation is subject to dual control by the accumulation of both SKP2 and cyclins following mitogenic stimulation. It regulates cell proliferation by binding to and modulating the activity of cyclin-dependent kinases. Reduced p27 activity is fundamental for the development of many human malignancies including breast, prostate, colon and gastric carcinomas.

Overview

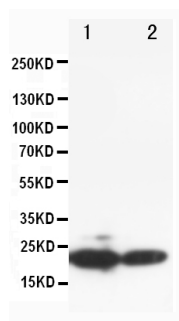
Product Name	Anti-p27 KIP 1/CDKN1B Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-p27 KIP 1/CDKN1B Antibody catalog # PA1063. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	FITC
Application	IHC, WB
Clonality	Monoclonal BAM-10
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Storage Instructions	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
Host	Hamster
Uniprot ID	P46527

Technical Details

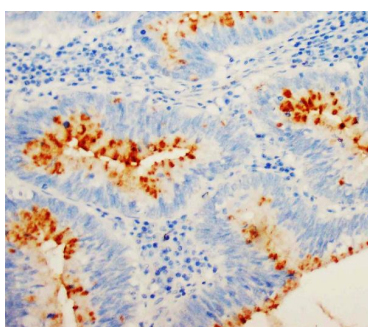
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human p27 KIP 1, different from the related rat and mouse sequences by one amino acid.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P).
Cross Reactivity	No cross reactivity with other proteins
Form	Lyophilized

Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen Affinity Purified
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse</p>

Anti-p27 KIP 1/CDKN1B Antibody (PA1063) Images



Anti-p27 KIP 1 antibody, PA1063, Western blotting
Lane1: JURKAT Cell Lysate
Lane2: HT1080 Cell Lysate



Anti-p27 KIP 1 antibody, PA1063, IHC(P)
IHC(P): Human Intestinal Cancer Tissue

1 Publications Citing This Product

1. PubMed ID: 22108090, Li Bh, Xu Sb, Li F, Zou Xg, Saimaiti A, Simayi D, Wang Yh, Zhang Y, Yuan J, Zhang Wj. Cell Signal. 2012 Mar;24(3):718-25. Doi: 10.1016/J.Cellsig.2011.11.005. Epub 2011 Nov 13. Stat6 Activity-Related Th2 Cytokine Profile And Tumor Growth Advantage ...

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