

# Anti-p27Kip1 (Mitotic Inhibitor/Suppressor Protein) CDKN1B Monoclonal Antibody

Catalog Number: M00173

## About CDKN1B

Recognizes a 27kDa protein, identified as the p27Kip1, a cell cycle regulatory mitotic inhibitor. Its epitope spans between aa 83-204 of p27. It is highly specific and shows no cross-reaction with other related mitotic inhibitors. p27Kip1 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. This monoclonal antibody co-precipitates cdk4 in complex p27Kip1 and is excellent for staining of formalin-fixed tissues.

## Overview

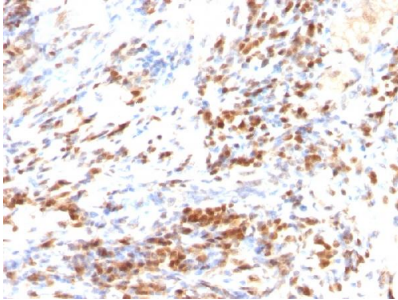
Product Name	Anti-p27Kip1 (Mitotic Inhibitor/Suppressor Protein) CDKN1B Monoclonal Antibody
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-p27Kip1 (Mitotic Inhibitor/Suppressor Protein) CDKN1B Monoclonal Antibody (Catalog # M00173). Tested in Flow Cytometry, IF, WB, IHC applications. This antibody reacts with Human, Monkey, Mouse, Rat.
Conjugate	Biotin
Application	Flow Cytometry, IF, IHC, WB
Clonality	Monoclonal Clone: DCS-72.F6 + KIP1/769
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P46527

## Technical Details

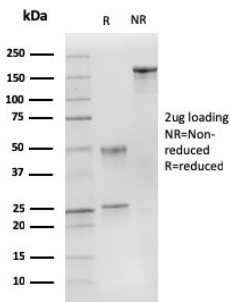
Immunogen	Mouse recombinant p27 protein (DCS-72.F6); Recombinant human CDKN1B protein (KIP1/769)
Predicted Reactive Species	Chimpanzee
Isotype	IgG1, kappa
Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml

Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
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>Flow Cytometry (1-2ug/million cells)</p> <p>Immunofluorescence (1-2ug/ml)</p> <p>Western Blot (1-2ug/ml)</p> <p>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 95&amp;degC followed by cooling at RT for 20 minutes)</p> <p>Optimal dilution for a specific application should be determined.</p>

## Anti-p27Kip1 (Mitotic Inhibitor/Suppressor Protein) CDKN1B Monoclonal Antibody (M00173) Images



Formalin-fixed, paraffin-embedded human Colon Cancer stained with Anti-p27 Monoclonal Antibody (DCS-72.F6 + KIP1/769)



SDS-PAGE analysis purified Anti-p27 Monoclonal Antibody (DCS-72.F6 + KIP1/769). Confirmation of purity and integrity of antibody.

## 1 Publications Citing This Product

1. PubMed ID: 21575146, Hepatitis B virus induces G1 phase arrest by regulating cell cycle genes in HepG2.2.15 cells

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