

Datasheet for ABIN389614  
**anti-CDKN1B antibody (pSer10)**



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## Overview

Quantity:	400 µL
Target:	CDKN1B
Binding Specificity:	pSer10
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDKN1B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This p27Kip1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S10 of human p27Kip1.
Clone:	RB7323
Isotype:	Ig Fraction
Predicted Reactivity:	Ha, M
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	CDKN1B
Alternative Name:	p27Kip1 ( <a href="#">CDKN1B Products</a> )

## Target Details

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**Background:** P27Kip1 is a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state.

**Molecular Weight:** 22073

**Gene ID:** 1027

**NCBI Accession:** [NP\\_004055](#)

**UniProt:** [P46527](#)

**Pathways:** [Cell Division Cycle](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Positive Regulation of Peptide Hormone Secretion](#), [Negative Regulation of Hormone Secretion](#), [Sensory Perception of Sound](#), [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [Positive Regulation of Endopeptidase Activity](#), [Synthesis of DNA](#), [Autophagy](#)

## Application Details

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**Application Notes:** WB: 1:1000. IHC-P: 1:50~100

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Buffer:** Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Storage:** 4 °C,-20 °C

**Storage Comment:** Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

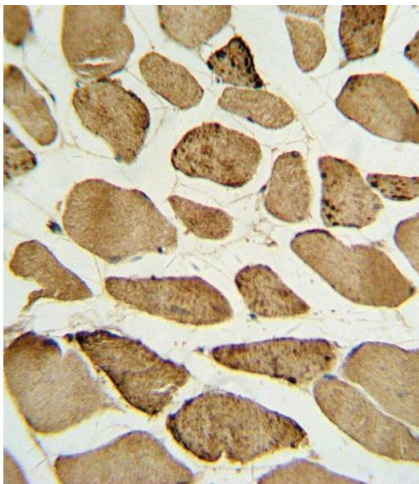
**Expiry Date:** 6 months

Product cited in: Fang, Zhang, Dizeyi, Chen, Wang, Swanson, Cai, Balk, Yuan: "Androgen Receptor Enhances p27 Degradation in Prostate Cancer Cells through Rapid and Selective TORC2 Activation." in: **The Journal of biological chemistry**, Vol. 287, Issue 3, pp. 2090-8, (2012) ([PubMed](#)).

Lee, Kim, Kim, Lee: "Gefitinib resistance of cancer cells correlated with TM4SF5-mediated epithelial-mesenchymal transition." in: **Biochimica et biophysica acta**, Vol. 1823, Issue 2, pp. 514-23, (2012) ([PubMed](#)).

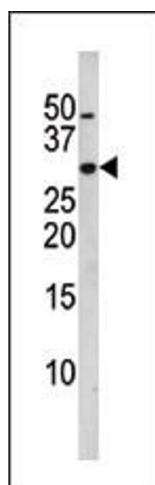
Le, Mao, He, Claret, Xia, Ahmed, Hung, Siddik, Bast: "The role of p27(Kip1) in dasatinib-enhanced paclitaxel cytotoxicity in human ovarian cancer cells." in: **Journal of the National Cancer Institute**, Vol. 103, Issue 18, pp. 1403-22, (2011) ([PubMed](#)).

## Images



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Formalin-fixed and paraffin-embedded human skeletal muscle with Phospho-p27Kip1-S10 Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



### Western Blotting

**Image 2.** The anti-Phospho-p27Kip1-S10 Pab (ABIN653138 and ABIN2842714) is used in Western blot to detect Phospho-p27Kip1-S10 in HL60 tissue lysate