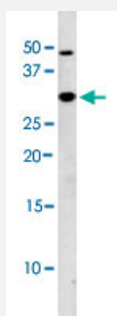


CDKN1B (phospho S10) polyclonal antibody

Catalog # PAB0557

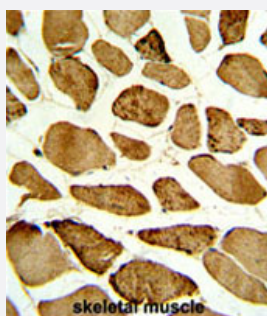
Size 400 uL

Applications



Western Blot (Cell lysate)

The CDKN1B (phospho S10) polyclonal antibody (Cat # PAB0557) is used in Western blot to detect Phospho-CDKN1B-S10 in HL-60 cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human skeletal muscle with CDKN1B (phospho S10) polyclonal antibody (Cat # PAB0557), 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.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of CDKN1B.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S10 of human CDKN1B.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

The CDKN1B (phospho S10) polyclonal antibody (Cat # PAB0557) is used in Western blot to detect Phospho-CDKN1B-S10 in HL-60 cell lysate.

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Gene Info — CDKN1B

Entrez GeneID	1027
Protein Accession#	NP_004055;P46527
Gene Name	CDKN1B
Gene Alias	CDKN4, KIP1, MEN1B, MEN4, P27KIP1
Gene Description	cyclin-dependent kinase inhibitor 1B (p27, Kip1)
Omim ID	600778 610755
Gene Ontology	Hyperlink
Gene Summary	This gene encodes 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. [provided by RefSeq]

Other Designations

cyclin-dependent kinase inhibitor 1B

Publication Reference

- [Methylation status analysis of cell cycle regulatory genes \(p16INK4A, p15INK4B, p21Waf1/Cip1, p27Kip1 and p73\) in natural killer cell disorders.](#)

Kawamata N, Inagaki N, Mizumura S, Sugimoto KJ, Sakajiri S, Ohyanagi-Hara M, Oshimi K.

European Journal of Haematology 2005 May; 74(5):424.

- [BCR-ABL induces the expression of Skp2 through the PI3K pathway to promote p27Kip1 degradation and proliferation of chronic myelogenous leukemia cells.](#)

Andreu EJ, Lledo E, Poch E, Ivorra C, Albero MP, Martinez-Climent JA, Montiel-Duarte C, Rifon J, Perez-Calvo J, Arbona C, Prosper F, Perez-Roger I.

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- [The tumor-specific hyperactive forms of cyclin E are resistant to inhibition by p21 and p27.](#)

Wingate H, Zhang N, McGarhen MJ, Bedrosian I, Harper JW, Keyomarsi K.

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Pathway

- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [ErbB signaling pathway](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Small cell lung cancer](#)

Disease

- [Acromegaly](#)
- [Adenocarcinoma](#)

- [Alzheimer disease](#)
- [Ataxia telangiectasia](#)
- [Atherosclerosis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chromosome Aberrations](#)
- [Cognition](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Restenosis](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Endometriosis](#)
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- [Liver Neoplasms](#)
- [Lung Neoplasms](#)

- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Mouth Neoplasms](#)
- [Multiple endocrine neoplasia](#)
- [Multiple Endocrine Neoplasia Type 1](#)
- [Myocardial Infarction](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Parathyroid Neoplasms](#)
- [Precancerous Conditions](#)
- [Primary Ovarian Insufficiency](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Stomach Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)