

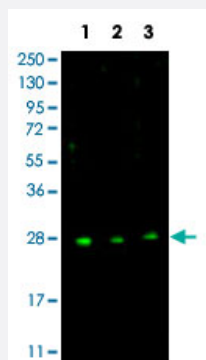
CDKN1B polyclonal antibody

Catalog # PAB10300

Size 100 uL

Applications

Western Blot (Cell lysate)



Western blot using CDKN1B polyclonal antibody (Cat # PAB10300) shows detection of CDKN1B protein in MCF-7 whole cell lysate (lanes 1-3) (arrowhead).

Separation was achieved using a 4-20% gradient gel.

Blocking occurred using 5% BLOTTO.

Primary antibody was diluted 1:500 in 1% BLOTTO.

The membrane was washed and reacted with a 1 : 10,000 dilution of Dylight™ 800 conjugated Gt-a-Rabbit IgG.

Molecular weight estimation was made by comparison to prestained MW markers indicated at the left (Lane M).

Specification

Product Description	Rabbit polyclonal antibody raised against full length recombinant CDKN1B.
Immunogen	Recombinant protein corresponding to full length human CDKN1B.
Host	Rabbit
Reactivity	Human
Specificity	Antiserum will specifically react with a p27 protein from human tissue. No reaction was observed against other related tumor suppressor proteins. No reactivity is observed with p27 from mouse.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	ELISA (1:10000-1:40000) Western Blot (1:1000-1:4000) The optimal working dilution should be determined by the end user.

Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% 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.

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- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — CDKN1B

Entrez GeneID	1027
Protein Accession#	P46527;NP_004055
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 CD K inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-C DK2 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

- [p130/pRb2 has growth suppressive properties similar to yet distinctive from those of retinoblastoma family members pRb and p107.](#)

Claudio PP, Howard CM, Baldi A, De Luca A, Fu Y, Condorelli G, Sun Y, Colburn N, Calabretta B, Giordano A.

Cancer Research 1994 Nov; 54(21):5556.

- [The retinoblastoma-related gene, RB2, maps to human chromosome 16q12 and rat chromosome 19.](#)

Yeung RS, Bell DW, Testa JR, Mayol X, Baldi A, Grana X, Klinga-Levan K, Knudson AG, Giordano A.

Oncogene 1993 Dec; 8(12):3465.

- [Cloning of a new member of the retinoblastoma gene family \(pRb2\) which binds to the E1A transforming domain.](#)

Mayol X, Grana X, Baldi A, Sang N, Hu Q, Giordano A.

Oncogene 1993 Sep; 8(9):2561.

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](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Graft Occlusion](#)
- [Head and Neck Neoplasms](#)
- [Hyperparathyroidism](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [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](#)