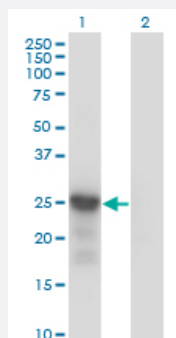


CDKN1B monoclonal antibody (M01), clone 4B4-E6

Catalog # H00001027-M01

Size 50 ug

Applications

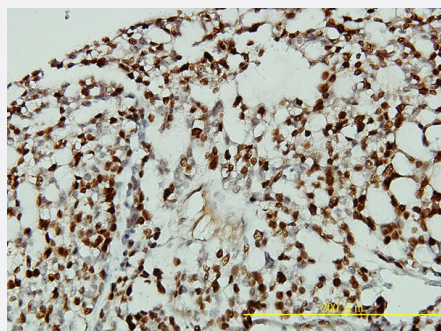


Western Blot (Transfected lysate)

Western Blot analysis of CDKN1B expression in transfected 293T cell line by CDKN1B monoclonal antibody (M01), clone 4B4-E6.

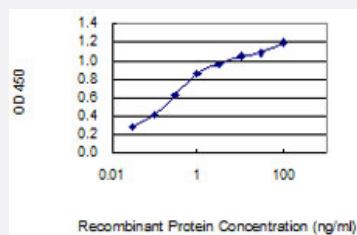
Lane 1: CDKN1B transfected lysate (22.1 KDa).

Lane 2: Non-transfected lysate.



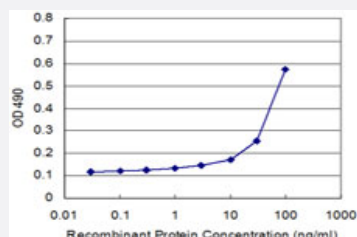
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to CDKN1B on formalin-fixed paraffin-embedded human ovary, clear cell carcinoma tissue. [antibody concentration 5 ug/ml]



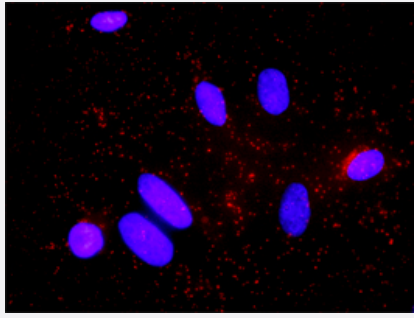
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CDKN1B is 0.03 ng/ml as a capture antibody.



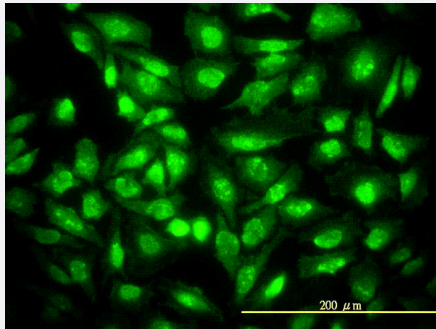
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CDKN1B is 10 ng/ml as a capture antibody.



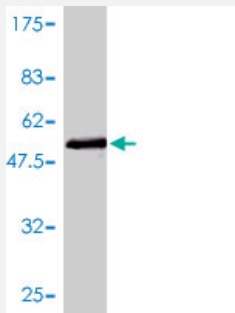
In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between AKT1 and CDKN1B. HeLa cells were stained with anti-AKT1 rabbit purified polyclonal 1:1200 and anti-CDKN1B mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Immunofluorescence

Immunofluorescence of monoclonal antibody to CDKN1B on HeLa cell.
[antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (47.52 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant CDKN1B.
Immunogen	CDKN1B (AAH01971, 1 a.a. ~ 198 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MSNVRVSNNGSPSLERMDARQAEHPKPSACRNLFGPVDHEELTRDLEKHCRDMEEASQRKWNF DFQNHKPLEGKYEWQEVEKGSLEPFYRPPRPPKGACKVPAQESQDGSGSRPAAPLIGAPANS EDTHLVDPKTDPSDSQTGLAEQCAGIRKRPATGDSSTQNKRANRTEENVSDGSPNAGSVEQTP KKPGLRRRQT
Host	Mouse
Reactivity	Human
Isotype	IgG1 kappa

Quality Control Testing

Antibody Reactive Against Recombinant Protein.
Western Blot detection against Immunogen (47.52 KDa) .

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of CDKN1B expression in transfected 293T cell line by CDKN1B monoclonal antibody (M01), clone 4B4-E6.

Lane 1: CDKN1B transfected lysate(22.1 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

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

Immunoperoxidase of monoclonal antibody to CDKN1B on formalin-fixed paraffin-embedded human ovary, clear cell carcinoma tissue. [antibody concentration 5 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CDKN1B is 0.03 ng/ml as a capture antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CDKN1B is 10 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between AKT1 and CDKN1B. HeLa cells were stained with anti-AKT1 rabbit purified polyclonal 1:1200 and anti-CDKN1B mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

- Immunofluorescence

Immunofluorescence of monoclonal antibody to CDKN1B on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — CDKN1B

Entrez GeneID [1027](#)

GeneBank Accession# [BC001971](#)

Protein Accession# [AAH01971](#)

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 degrad ation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubi quitination by SCF complexes, is required for the cellular transition from quiescence to the prolifer ative state. [provided by RefSeq]

Other Designations cyclin-dependent kinase inhibitor 1B

Publication Reference

- [Increase of Intracellular Cyclic Amp by PDE4 Inhibitors Affects HepG2 Cell Cycle Progression and Survival.](#)

Massimi M, Cardarelli S, Galli F, Giardi MF, Ragusa F, Panera N, Cinque B, Cifone MG, Biagioni S, Giorgi M.

Journal of Cellular Biochemistry 2017 Jun; 118(6):1401.

Application: WB, Human, HepG2 cells

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](#)
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- [Kidney Failure](#)
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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](#)