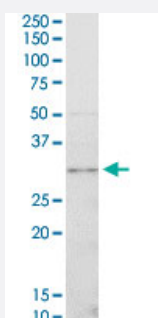


CDK4 monoclonal antibody (M03), clone 4F11

Catalog # H00001019-M03

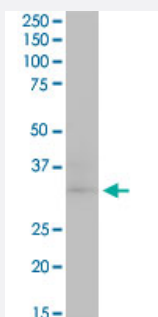
Size 100 ug

Applications



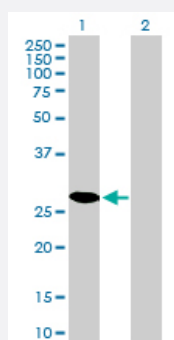
Western Blot (Cell lysate)

CDK4 monoclonal antibody (M03), clone 4F11. Western Blot analysis of CDK4 expression in HeLa S3 NE.



Western Blot (Cell lysate)

CDK4 monoclonal antibody (M03), clone 4F11. Western Blot analysis of CDK4 expression in 293.



Western Blot (Transfected lysate)

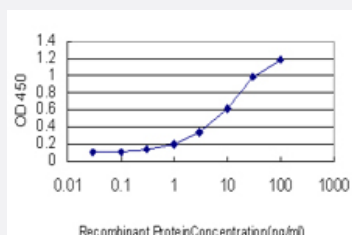
Western Blot analysis of CDK4 expression in transfected 293T cell line by CDK4 monoclonal antibody (M03), clone 4F11.

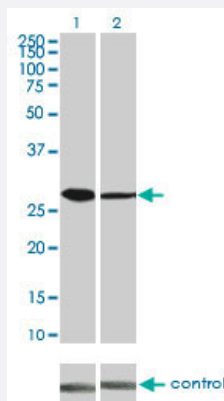
Lane 1: CDK4 transfected lysate(33.7 KDa).

Lane 2: Non-transfected lysate.

Sandwich ELISA (Recombinant protein)

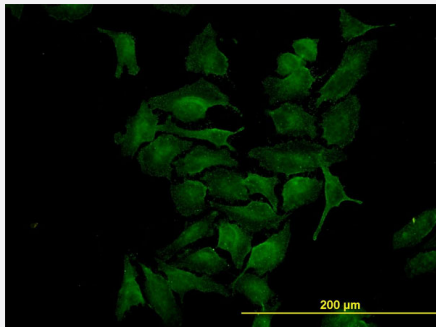
Detection limit for recombinant GST tagged CDK4 is approximately 1ng/ml as a capture antibody.





RNAi Knockdown (Antibody validated)

Western blot analysis of CDK4 over-expressed 293 cell line, cotransfected with CDK4 Validated Chimera RNAi (Cat # H00001019-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with CDK4 monoclonal antibody (M03) clone 4F11 (Cat # H00001019-M03). GAPDH (36.1 kDa) used as specificity and loading control.



Immunofluorescence

Immunofluorescence of monoclonal antibody to CDK4 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (35.97 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant CDK4.
Immunogen	CDK4 (AAH03644, 211 a.a. ~ 303 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	KPLFCGNSEADQLGKIFDLIGLPPEDDWPRDVS LPRGAFFPRGPRPVQSVVPEMEESGAQLLLE MLTFNPHKRISAFRALQHSYLHKDEGNPE
Host	Mouse
Reactivity	Human
Isotype	IgG1 Kappa

Quality Control Testing

Antibody Reactive Against Recombinant Protein.
Western Blot detection against Immunogen (35.97 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 (Cell lysate)

CDK4 monoclonal antibody (M03), clone 4F11. Western Blot analysis of CDK4 expression in Hela S3 NE.

[Protocol Download](#)

- Western Blot (Cell lysate)

CDK4 monoclonal antibody (M03), clone 4F11. Western Blot analysis of CDK4 expression in 293.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of CDK4 expression in transfected 293T cell line by CDK4 monoclonal antibody (M03), clone 4F11.

Lane 1: CDK4 transfected lysate(33.7 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CDK4 is approximately 1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of CDK4 over-expressed 293 cell line, cotransfected with CDK4 Validated Chimera RNAi (Cat # H00001019-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with CDK4 monoclonal antibody (M03) clone 4F11 (Cat # H00001019-M03). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

- Immunofluorescence

Immunofluorescence of monoclonal antibody to CDK4 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — CDK4

Entrez GeneID [1019](#)

GeneBank Accession# [BC003644](#)

Protein Accession# [AAH03644](#)

Gene Name CDK4

Gene Alias CMM3, MGC14458, PSK-J3

Gene Description cyclin-dependent kinase 4

Omim ID [123829 609048](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of *S. cerevisiae* cdc28 and *S. pombe* cdc2. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported. [provided by RefSeq]

Other Designations cell division kinase 4|melanoma cutaneous malignant, 3

Pathway

- [Bladder cancer](#)
- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [Glioma](#)
- [Melanoma](#)
- [Non-small cell lung cancer](#)

- [p53 signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Small cell lung cancer](#)
- [T cell receptor signaling pathway](#)
- [Tight junction](#)

Disease

- [Adenocarcinoma](#)
- [Birth Weight](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Head and Neck Neoplasms](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Malignant melanoma](#)
- [Melanoma](#)

- [Mouth Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Precancerous Conditions](#)
- [Pulmonary Disease](#)
- [Retinoblastoma](#)
- [Skin Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Uveal Neoplasms](#)
- [Werner syndrome](#)