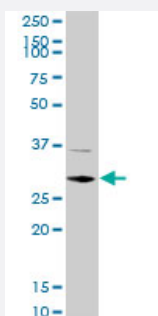


# CDK4 monoclonal antibody (M09), clone 8A10

Catalog # H00001019-M09

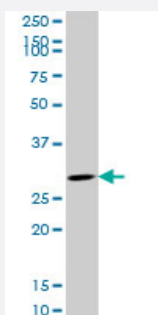
Size 100 ug

## Applications



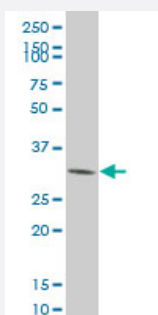
### Western Blot (Cell lysate)

CDK4 monoclonal antibody (M09), clone 8A10. Western Blot analysis of CDK4 expression in Raw 264.7 ( Cat # L024V1 ).



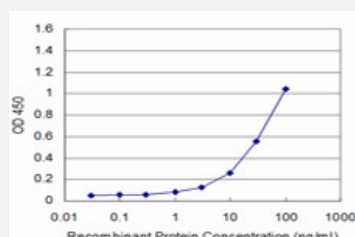
### Western Blot (Cell lysate)

CDK4 monoclonal antibody (M09), clone 8A10. Western Blot analysis of CDK4 expression in NIH/3T3 ( Cat # L018V1 ).



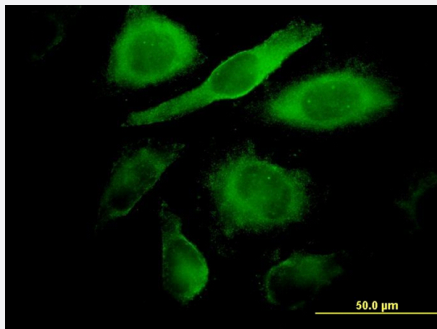
### Western Blot (Cell lysate)

CDK4 monoclonal antibody (M09), clone 8A10 Western Blot analysis of CDK4 expression in HeLa ( Cat # L013V1 ).



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CDK4 is approximately 3ng/ml as a capture antibody.



## Immunofluorescence

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



Western Blot detection against Immunogen (35.97 KDa) .

## Specification

|                                |                                                                                                                  |
|--------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Mouse monoclonal antibody raised against a partial recombinant CDK4.                                             |
| <b>Immunogen</b>               | CDK4 (AAH03644, 211 a.a. ~ 303 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| <b>Sequence</b>                | KPLFCGNSEADQLGKIFDLIGLPPEDDWPRDVS LPRGAFPPRGPRPVQSVVPEMEESGAQLLLE<br>MLTFNPHKRISAFRALQHSYLHKDEGNPE               |
| <b>Host</b>                    | Mouse                                                                                                            |
| <b>Reactivity</b>              | Human, Mouse                                                                                                     |
| <b>Isotype</b>                 | IgG1 Kappa                                                                                                       |
| <b>Quality Control Testing</b> | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (35.97 KDa) .         |
| <b>Storage Buffer</b>          | In 1x PBS, pH 7.4                                                                                                |
| <b>Storage Instruction</b>     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                         |

## Applications

- Western Blot (Cell lysate)

CDK4 monoclonal antibody (M09), clone 8A10. Western Blot analysis of CDK4 expression in Raw 264.7 ( Cat # L024V1 ).

[Protocol Download](#)

- Western Blot (Cell lysate)

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- Western Blot (Cell lysate)

CDK4 monoclonal antibody (M09), clone 8A10 Western Blot analysis of CDK4 expression in HeLa ( Cat # L013V1 ).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CDK4 is approximately 3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

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

## Gene Info — CDK4

|               |                      |
|---------------|----------------------|
| Entrez GeneID | <a href="#">1019</a> |
|---------------|----------------------|

|                     |                          |
|---------------------|--------------------------|
| GeneBank Accession# | <a href="#">BC003644</a> |
|---------------------|--------------------------|

|                    |                          |
|--------------------|--------------------------|
| Protein Accession# | <a href="#">AAH03644</a> |
|--------------------|--------------------------|

|           |      |
|-----------|------|
| Gene Name | CDK4 |
|-----------|------|

|            |                        |
|------------|------------------------|
| Gene Alias | CMM3, MGC14458, PSK-J3 |
|------------|------------------------|

|                  |                           |
|------------------|---------------------------|
| Gene Description | cyclin-dependent kinase 4 |
|------------------|---------------------------|

|         |                               |
|---------|-------------------------------|
| Omim ID | <a href="#">123829 609048</a> |
|---------|-------------------------------|

## 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](#)