

# CDK7 monoclonal antibody, clone MO-1.1

Catalog # MAB1440

Size 100 ug

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against full length recombinant CDK7.
<b>Immunogen</b>	Recombinant protein corresponding to full length human CDK7.
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	46
<b>Reactivity</b>	Human
<b>Form</b>	Lyophilized
<b>Purification</b>	Affinity purification
<b>Isotype</b>	IgG2b
<b>Recommend Usage</b>	Western Blot (0.25 ug/mL) Immunohistochemistry (Frozen sections) (0.5 ug/mL) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	Lyophilized from 1.2% sodium acetate (2 mg BSA, 0.01 mg sodium azide)
<b>Storage Instruction</b>	Store at -20°C on dry atmosphere. After reconstitution with 1 mL of 1.2% sodium acetate or neutral PBS and concentration will be 100 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot
- Immunohistochemistry (Frozen sections)

- Immunocytochemistry

## Gene Info — CDK7

Entrez GeneID [1022](#)

Gene Name CDK7

Gene Alias CAK1, CDKN7, MO15, STK1, p39MO15

Gene Description cyclin-dependent kinase 7

Omim ID [601955](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of *Saccharomyces cerevisiae* cdc 28, and *Schizosaccharomyces pombe* cdc2, and are known to be important regulators of cell cycle progression. This protein forms a trimeric complex with cyclin H and MAT1, which functions as a Cdk-activating kinase (CAK). It is an essential component of the transcription factor TFIIH, that is involved in transcription initiation and DNA repair. This protein is thought to serve as a direct link between the regulation of transcription and the cell cycle. [provided by RefSeq]

**Other Designations** 39 KDa protein kinase|Cdk-activating kinase|cell division protein kinase 7|cyclin-dependent kinase 7 (MO15 homolog, *Xenopus laevis*, cdk-activating kinase)|homolog of *Xenopus* MO15 Cdk-activating kinase|kinase subunit of CAK|serine/threonine kinase stk1|ser

## Pathway

- [Cell cycle](#)
- [Nucleotide excision repair](#)

## Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)

- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Multiple Sclerosis](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Rectal Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)