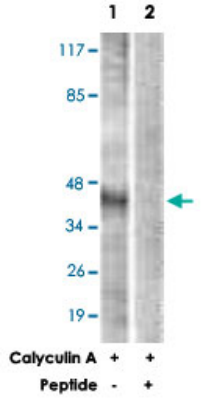
CDK7 polyclonal antibody

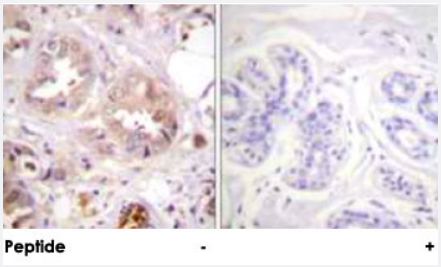
Catalog # PAB18323 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from Raw 264.7 cells, treated with Calyculin A (50 ng/mL, 30 mins), using CDK7 polyclonal antibody (Cat # PAB18323). Peptide "+" means "peptide blocking".



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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CDK7 polyclonal antibody (Cat # PAB18323).
Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CDK7.
Immunogen	A synthetic peptide corresponding to residues surrounding T170 of human CDK7.
Host	Rabbit
Reactivity	Human, Mouse
Specificity	This antibody is specific to CDK7.
Form	Liquid

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of extracts from Raw 264.7 cells, treated with Calyculin A (50 ng/mL, 30 mins), using CDK7 polyclonal antibody (Cat # PAB18323).
  Peptide "+" means "peptide blocking".

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

  Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CDK7 polyclonal antibody (Cat # PAB18323).
  Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — CDK7

Entrez GeneID	1022
Protein Accession#	P50613
Gene Name	CDK7
Gene Alias	CAK1, CDKN7, MO15, STK1, p39MO15
Gene Description	cyclin-dependent kinase 7
Omim ID	601955

Copyright © 2023 Abnova Corporation. All Rights Reserved.

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 cdc28, 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

Publication Reference

- In vivo potentiation of human oestrogen receptor alpha by Cdk7-mediated phosphorylation.

  Ito S, Takeyama K, Yamamoto A, Sawatsubashi S, Shirode Y, Kouzmenko A, Tabata T, Kato S.

  Genes to Cells: Devoted to Molecular & Cellular Mechanisms 2004 Oct; 9(10):983.

  Application: IP, Human, HEK 293T cells

- Meiotic expression of the cyclin H/Cdk7 complex in male germ cells of the mouse.

  Kim JM, McGaughy JT, Bogle RK, Ravnik SE.

  Biology of Reproduction 2001 May; 64(5):1400.

  Application: IHC-P, IP, WB, Mouse, Mouse testes

Pathway

- Cell cycle
- Nucleotide excision repair

Disease

- Adenocarcinoma
- Ataxia telangiectasia
- Colonic Neoplasms
- Colorectal Neoplasms

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Kidney Failure
- Lung Neoplasms
- Multiple Sclerosis
- Ovarian Neoplasms
- Pulmonary Disease
- Rectal Neoplasms
- Urinary Bladder Neoplasms
- Werner syndrome

Copyright © 2023 Abnova Corporation. All Rights Reserved.