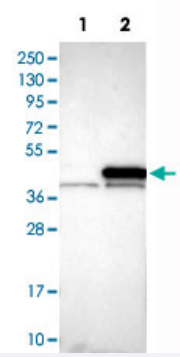
CDK7 polyclonal antibody

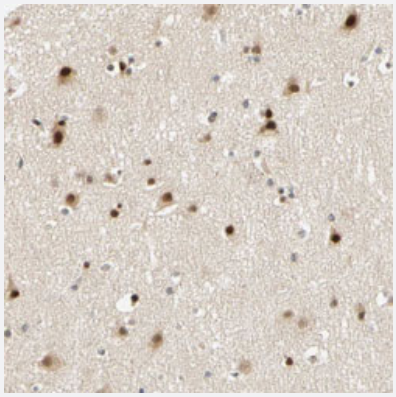
Catalog # PAB30788 Size 100 uL

Applications



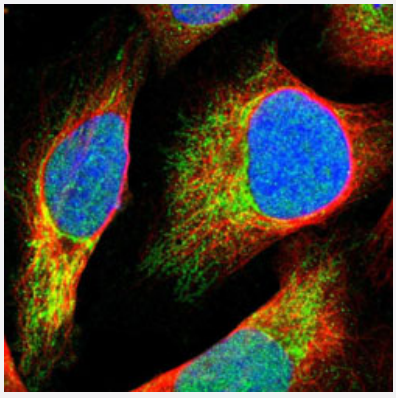
Western Blot (Transfected lysate)

Western Blot analysis of Lane 1: negative control (vector only transfected HEK293T cell lysate) and Lane 2: over-expression lysate (co-expressed with a C-terminal myc-DDK tag in mammalian HEK293T cells) with CDK7 polyclonal antibody (Cat # PAB30788).



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebral cortex with CDK7 polyclonal antibody (Cat # PAB30788) shows strong nuclear and moderate cytoplasmic positivity in neuronal cells. Glial cells showed weaker staining.



Immunofluorescence

Immunofluorescent staining of U-2 OS with CDK7 polyclonal antibody (Cat # PAB30788) (Green) shows positivity in nucleus and mitochondria.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human CDK7.
Immunogen	Recombinant protein corresponding to human CDK7.
Sequence	GCILAELLLRVPFLPGDSDLDQLTRIFETLGTPTEEQWPDMCSLPDYVTFKSFPGIPLHHIFSAAGD DLLDLIQGLFLFNPCARITATQALKMKYFSNRPGPTPGCQLPRPNCPVETLKEQSNPALAIKRKRT EALEQGGLPKKLI
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1-4 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:500) Western Blot (1:100-1:250) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage 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.

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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
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

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