

## Anti-Phospho-CDK7 (Thr170) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

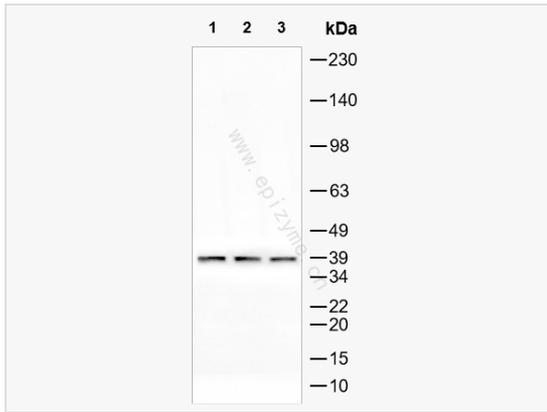
Catalog # R016051

### Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	32C81P97
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Thr170 of human Cdk7
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-CDK7 (Thr170) Rabbit mAb [32C81P97] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

Synonyms	CDK7 (p-T170); p-CDK7; phospho-CDK7; CAK; CAK1; CDKN7; HCAK; MO15; STK1; p39MO15; CDK7_HUMAN; CDK7; 39 kDa protein kinase (p39 Mo15); CDK-activating kinase 1; Cell division protein kinase 7; Serine/threonine-protein kinase 1; TFIIH basal transcription factor complex kinase subunit; 2.7.11.22; 2.7.11.23.
Calculated MW	Calculated MW: 39 kDa; Observed MW: 39 kDa
Uniprot ID	P50613
Gene ID	1022
Background	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 <i>Saccharomyces cerevisiae</i> cdc28, and <i>Schizosaccharomyces pombe</i> 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, Jul 2008]
Cellular Location	Nucleus Cytoplasm Cytoplasm Perinuclear region Colocalizes with PRKCI in the cytoplasm and nucleus (PubMed:15695176). Translocates from the nucleus to cytoplasm and perinuclear region in response to DNA-bound peptides (PubMed:19071173).
Tissue Location	Ubiquitous.



Western Blot - Anti-Phospho-CDK7 (Thr170) Rabbit mAb [32C81P97]

All lanes: R016051 at 1:1,000 dilution

Lane 1: THP-1 (Human monocytic leukemia cell) whole cell lysates

Lane 2: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lane 3: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lysates/proteins at 10  $\mu$ g per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 39 kDa

Observed band size: 39 kDa

Developed using the ECL technique (Cat. No. SQ201).