Anti-Phospho-CDK7 (Thr170) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R016051

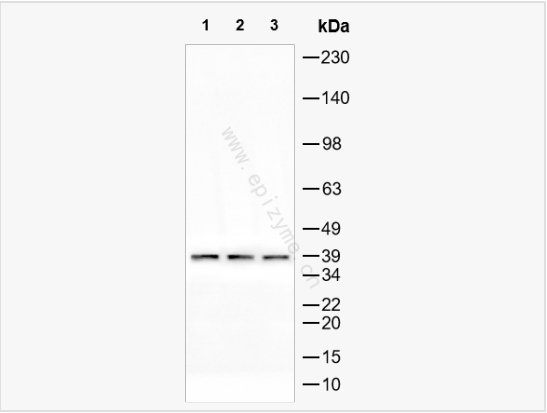
Product Information

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 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, 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.

Validation Images



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 µg 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).