

## Product datasheet for **TA330175**

### CDK7 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-CDK7 antibody: synthetic peptide directed towards the middle region of human CDK7. Synthetic peptide located within the following region: TQALKMKYFSNRPGPTPGCQLPRPNCPVETLKEQSNPALAIKRKRTEALE
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	39 kDa
Gene Name:	cyclin-dependent kinase 7
Database Link:	<a href="#">NP_001790</a> <a href="#">Entrez Gene 1022 Human</a> <a href="#">P50613</a>



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**Background:**

CDK7 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. 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

**Synonyms:**

CAK1; CDKN7; HCAK; MO15; p39MO15; STK1

**Note:**

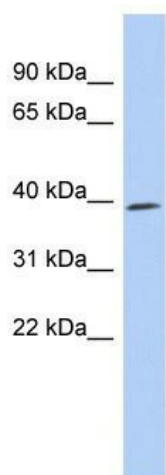
Immunogen sequence homology: Human: 100%; Dog: 86%; Horse: 86%; Pig: 86%; Rat: 86%; Bovine: 80%; Guinea pig: 78%

**Protein Families:**

Druggable Genome, Protein Kinase, Stem cell - Pluripotency, Transcription Factors

**Protein Pathways:**

Cell cycle, Nucleotide excision repair

**Product images:**


WB Suggested Anti-CDK7 Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:12500; Positive Control: THP-1 cell lysate