

## Product datasheet for **TA323115**

### CDK7 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: A549 cells IHC: 15-50 Positive control: Human lung cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 12-295 amino acids of human
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
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 12572 Mouse</a> <a href="#">Entrez Gene 171150 Rat</a> <a href="#">Entrez Gene 1022 Human</a> <a href="#">P50613</a>



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**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 TFIIF; 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.

**Synonyms:**

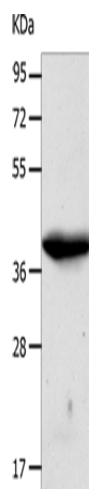
CAK1; CDKN7; HCAK; MO15; p39MO15; STK1

**Protein Families:**

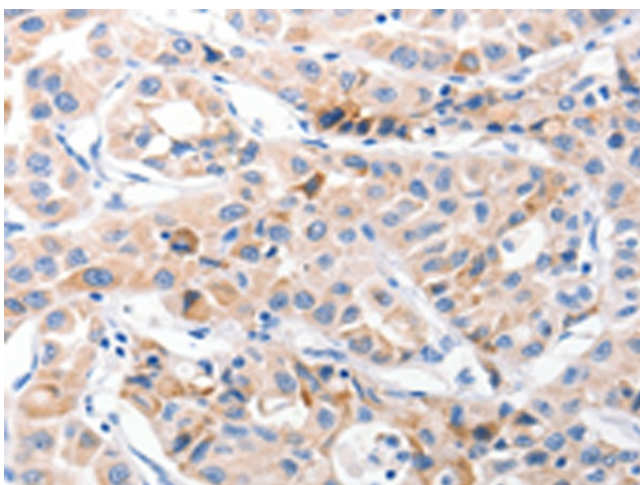
Druggable Genome, Protein Kinase, Stem cell - Pluripotency, Transcription Factors

**Protein Pathways:**

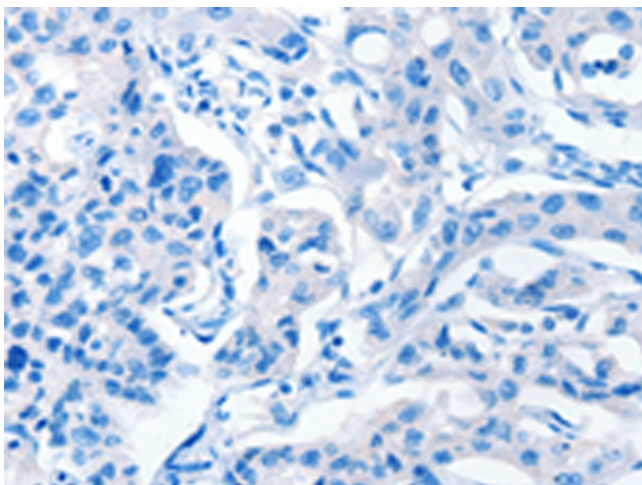
Cell cycle, Nucleotide excision repair

**Product images:**


Gel: 10%SDS-PAGE  
Lysate: 60 µg  
Lane: A549 cells  
Primary antibody: TA323115 (CDK7 Antibody) at dilution 1/500  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution  
Exposure time: 2 minutes



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA323115 (CDK7 Antibody) at dilution 1/30 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA323115 (CDK7 Antibody) at dilution 1/30, treated with fusion protein. (Original magnification: x200)