

Product datasheet for **TA323115S**

CDK7 Rabbit Polyclonal Antibody

Product data:

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| 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 ₃ , 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: | NP_001790 Entrez Gene 12572 Mouse Entrez Gene 171150 Rat Entrez Gene 1022 Human P50613 |



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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:

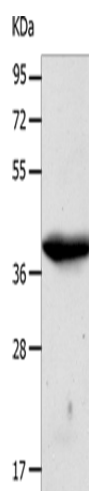
CAK1; CDKN7; HCAK; MO15; p39MO15; STK1

Protein Families:

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

Protein Pathways:

Cell cycle, Nucleotide excision repair

Product images:

Gel: 10%SDS-PAGE

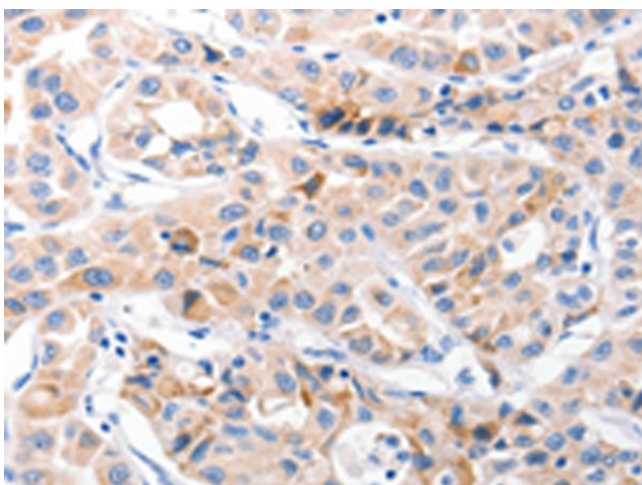
Lysate: 60 µg

Lane: A549 cells

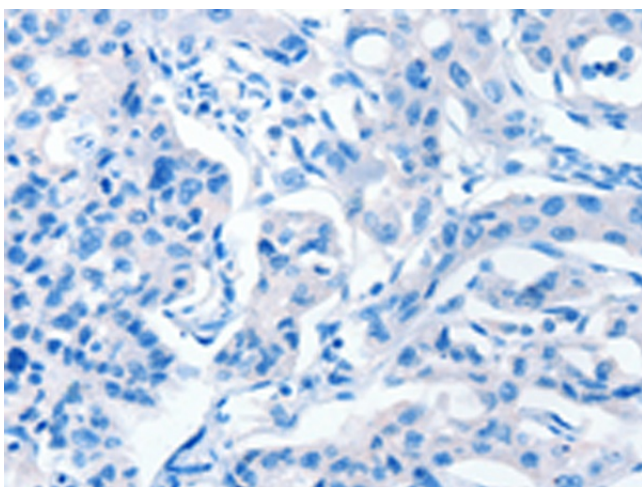
Primary antibody: [TA323115] (CDK7 Antibody) at dilution 1/500

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: $\times 200$)