

## Product datasheet for **TA326832**

### CDK4 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB 1:500 - 1:2000;IHC 1:50- 1:200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Center-peptide of human CDK4
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	cyclin-dependent kinase 4
Database Link:	<a href="#">NP_000066</a> <a href="#">Entrez Gene 12567 Mouse</a> <a href="#">Entrez Gene 94201 Rat</a> <a href="#">Entrez Gene 1019 Human</a> <a href="#">P11802</a>



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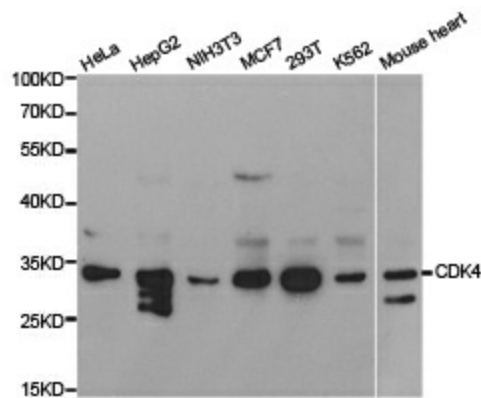
**Background:** Cyclin-dependent kinase activity is regulated by T-loop phosphorylation (Thr172 in the case of CDK4), by the abundance of their cyclin partners, and by association with CDK inhibitors of the Cip/Kip or INK family of proteins. The inactive ternary complex of CDK4/cyclin D and p27 Kip1/Cip1 requires extracellular mitogenic stimuli for the release and degradation of p27, which affects progression through the restriction point and pRb-dependent entry into S-phase. The active complex of CDK4/cyclin D targets the retinoblastoma protein for phosphorylation, allowing the release of E2F transcription factors that activate G1/S-phase gene expression. In HeLa cells, upon UV irradiation, upregulation of p16 INK4A association with CDK4/cyclin D3 leads to a G2 delay, implicating CDK4/cyclin D3 activity in progression through the G2-phase of the cell cycle.

**Synonyms:** CMM3; PSK-J3

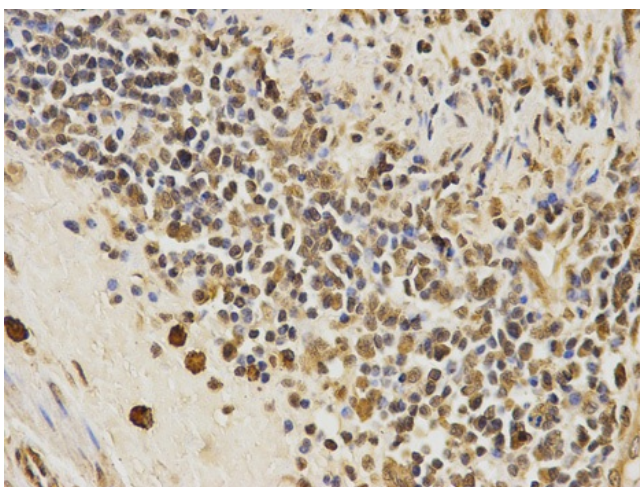
**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Bladder cancer, Cell cycle, Chronic myeloid leukemia, Glioma, Melanoma, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer, Small cell lung cancer, T cell receptor signaling pathway, Tight junction

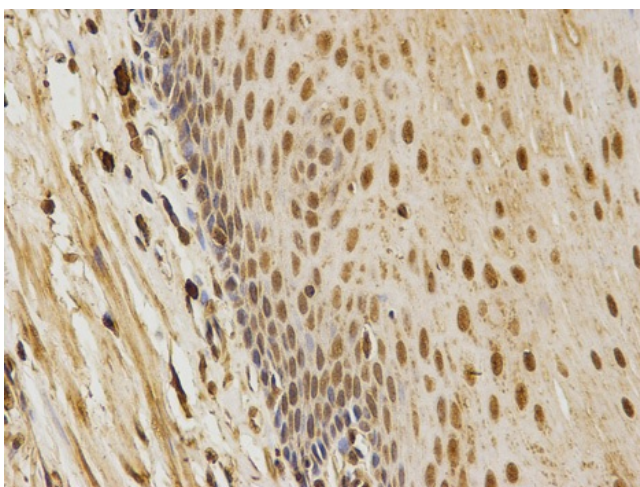
### Product images:



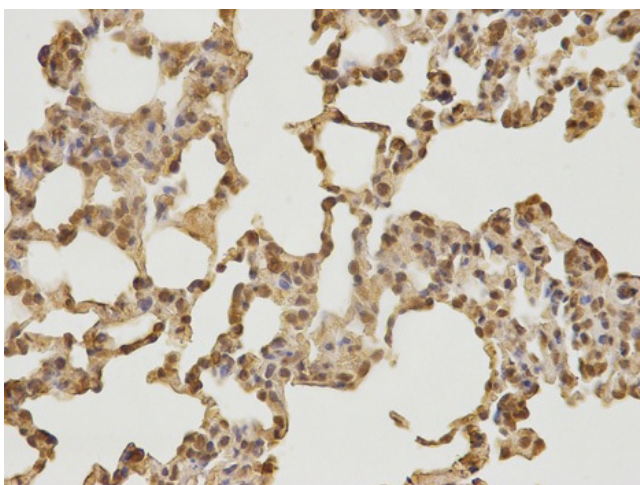
Western blot analysis of extracts of various cell lines, using CDK4 antibody.



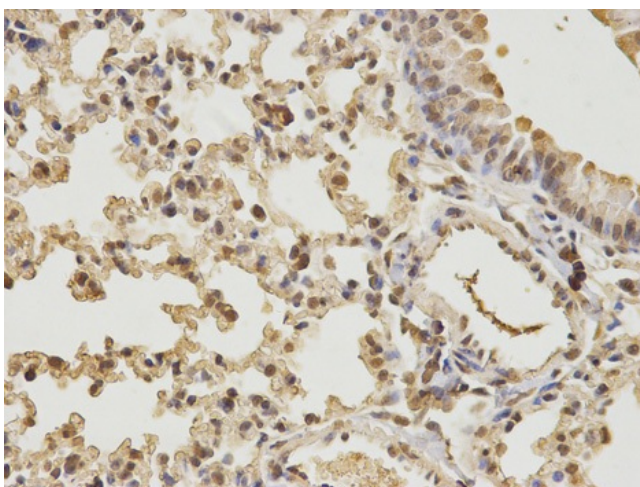
Immunohistochemistry of paraffin-embedded human esophageal cancer using CDK4 antibody at dilution of 1:100 (400x lens).



Immunohistochemistry of paraffin-embedded human esophagus using CDK4 antibody at dilution of 1:100 (400x lens).



Immunohistochemistry of paraffin-embedded rat lung using CDK4 antibody at dilution of 1:100 (400x lens).



Immunohistochemistry of paraffin-embedded mouse lung using CDK4 antibody at dilution of 1:100 (400x lens).