

## Product datasheet for **TA328198S**

### Cdk4 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:1000
Reactivity:	Rat
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This Rat Cdk4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 272-303 amino acids from the C-terminal region of rat Cdk4.
Formulation:	PBS with 0.09% (W/V) sodium azide
Concentration:	lot specific
Purification:	This antibody is purified through a protein A column, followed by peptide 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_446045</a> <a href="#">Entrez Gene 94201 Rat P35426</a>



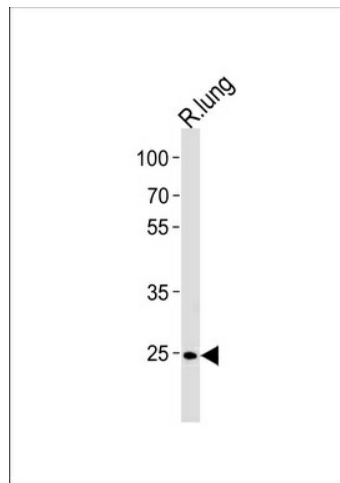
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**Background:**

Ser/Thr-kinase component of cyclin D-CDK4 (DC) complexes that phosphorylate and inhibit members of the retinoblastoma (RB) protein family including RB1 and regulate the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complexes and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also phosphorylates SMAD3 in a cell-cycle-dependent manner and represses its transcriptional activity. Component of the ternary complex, cyclin D/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex (By similarity).

**Synonyms:**

CMM3; MGC14458; PSK-J3

**Product images:**

Rat Cdk4 Antibody (C-term) (Cat. #[TA328198]) western blot analysis in rat lung tissue lysates (35ug/lane). This demonstrates the rat Cdk4 antibody detected the rat Cdk4 protein (arrow).