

## Product datasheet for R1004

### CDK4 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IP, WB
Recommended Dilution:	ELISA: 1:500 - 1:2,000. Immunoprecipitation. Western Blot: 1:200 - 1:500.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	cdk4 (p34) peptide corresponding to the C-terminus of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH).
Specificity:	This product was prepared from monospecific antiserum by delipidation and defibrination. Antiserum will specifically react with a 34 kDa cdk4 (p34) protein. No reaction was observed against other related cyclin dependent kinases. Cross reactivity with cdk4 (p34) from other species has not been determined.
Formulation:	State: Serum State: Liquid serum containing 0.01% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	cyclin-dependent kinase 4
Database Link:	<a href="#">Entrez Gene 1019 Human P11802</a>



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**Background:**

Cdk4 is a member of the Ser/Thr protein kinase family. It is highly similar to the gene products of *S. cerevisiae* cdc28, and *S. pombe* cdc2. Cdk4 is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1/S phase, which is controlled by the regulatory subunits D type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). The mutations in this gene as well as its related proteins including D type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Two alternatively spliced variants, and multiple polyadenylation sites of this gene have been reported.

**Synonyms:**

PSK-J3