

Product datasheet for **SM1570P**

CDK4 Mouse Monoclonal Antibody [Clone ID: DCS-31.2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	DCS-31.2
Applications:	IHC, IP, WB
Recommended Dilution:	Western Blot. Immunoprecipitation. Immunohistochemistry on frozen sections.
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody recognises cyclin dependent kinase 4 (Cdk4). Clone DCS 31.2 does not cross react with other cdks and does not co-precipitate the D type cyclins bound to cdk4.
Formulation:	PBS containing 0.08% Sodium Azide State: Purified State: Liquid purified IgG
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	cyclin-dependent kinase 4
Database Link:	Entrez Gene 1019 Human P11802



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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