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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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cyclin dependent kinase 4 . Rabbit Polyclonal Antibody

BACKGROUND

p34^{cdk4} is a major catalytic subunit of mammalian D-type cyclins which is expressed by a gene found in human chromosome 12q13. The cdk4 protein is constitutively expressed throughout the cell cycle and it is the assembly and accumulation of functional cdk4/cyclin D complexes which is rate limiting for the progression through the G1 phase of the cell cycle. Once the complex is formed it must be activated by the phosphorylation of threonine 172 on the cdk4 subunit, a reaction mediated by a cdk-activating kinase (CAK). Complex formation and phosphorylation are independently regulated events. The phosphorylation of the cdk4 subunit is subject to regulation of both stimulatory and inhibitory cytokine signals, thereby allowing cdk4 to function as a mid G1 checkpoint. Independent of phosphorylation, cdk4 is also regulated by the binding of p16Ink4/mts1 while in complex with cyclin D.

IMMUNOGEN

TrpE-fusion protein containing the C-terminal 164 amino acids of human Cdk4

POSITIVE CONTROL/TISSUE EXPRESSION

HeLa cell lysate

COMMENTS

Detects Cdk4 by Western blot in HeLa cell lysates. Can also be used for immunoprecipitation. Optimal concentration should be evaluated by serial dilutions.

ORDERING INFORMATION

CATALOG NUMBER

X1216P

SIZE

100 µg

FORM

Unconjugated

HOST/CLONE

Rabbit

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG

APPLICATIONS

Western Blot, Immunoprecipitation

SPECIES REACTIVITY

Human

ACCESSION NUMBER

P11802, Human

PURIFICATION

Ammonium Sulfate Precipitation

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Ando, K. and Griffin, J.D. Cdk4 integrates growth stimulatory and inhibitory signals during G1 phase of hematopoietic cells. *Oncogene* 1995, 10, 751-755.
2. Tam, S.W., et al. Differential expression and cell cycle regulation of the cyclin-dependent kinase 4 inhibitor p16Ink4. *Cancer Res.* 1994, 54, 5816-5820
3. Khatib, Z.A., et al. Coamplification of the CDK4 gene with MDM2 and GLI in human sarcomas. *Cancer Res.* 1993, 53, 5535-5541