
CDK4 (Clone DCS-31) Mouse Monoclonal Antibody

Specificity: Human, Others unknown

Immunogen: Full length CDK4 of human origin.

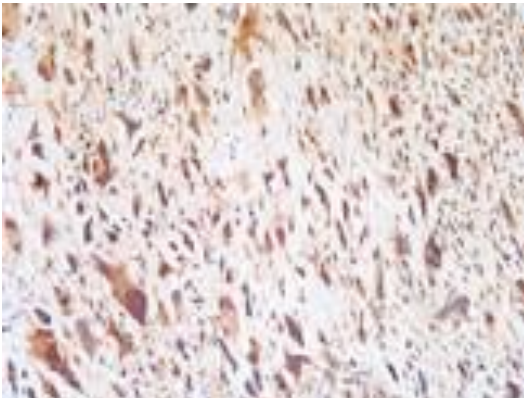
Ig Class: IgG2/α

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:50-100; *Positive Control:* Liposarcoma. *Cellular Localization:* nuclear and cytoplasmic. *Intended Use:* In Vitro Diagnosis (IVD).

Description: CDK4 is a major catalytic subunit of mammalian D-type cyclins. The gene for cdk4 is localized to 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. CDK4 gene is amplified in well differentiated liposarcoma.

Supplied As: Purified antibody in 0.2% BSA and 15mM sodium azide.



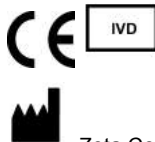
References:

1. Jullié ML, et al. *Am J Surg Pathol.* 2013; 37:1845-54.
2. Yoshida A, et al. *Am J Surg Pathol.* 2012; 36:423-31.
3. Clay MR, et al. *Am J Surg Pathol.* 2016; 40:1647-1652.

Formalin-fixed, paraffin-embedded human pleomorphic liposarcoma stained with anti-CDK4 antibody using peroxidase-conjugate and DAB chromogen. Note nuclear/cytoplasmic staining of tumor cells

Cat. #Z2226 (1.0 ml)

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