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Product datasheet for BM5018

CDK4 Mouse Monoclonal Antibody [Clone ID: DCS-156]

Product data:

Product Type:	Primary Antibodies
Clone Name:	DCS-156
Applications:	IHC, WB
Recommended Dilution:	**Immunoblotting (Western blotting).** **Immunohistochemistry on Frozen Sections:** 1/10. **Immunohistochemistry on Paraffin Embedded Sections:** 1/10 (Improved after microwave treatment). Dilute with PBS, immediately before use. *Incubation Time:* 1-4 h at RT or overnight at 2-8°C.
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant full-length cdk4 polypeptide.
Specificity:	Clone DCS-156 reacts specifically with CDK4 protein present predominantly in G1 phase of cell cycle. It does not cross-react with cyclins. In immunohistochemical application on frozen sections of head and neck carcinoma (oropharynx and hypopharynx carcinoma) DCS-156 shows distinct nuclear staining, especially in tumor areas of enhanced proliferation. Epitope recognized: aa 270-290.
Formulation:	PBS, pH 7.4 State: Purified State: Lyophilized purified Ig fraction Stabilizer: 0.5% BSA Preservative: 0.09% Sodium Azide
Reconstitution Method:	Restore in 1 ml distilled water.
Purification:	Affinity Chromatohgraphy on Protein A
Conjugation:	Unconjugated

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Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. 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
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

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