

Product datasheet for TA346909

CDK4 Mouse Monoclonal Antibody [Clone ID: 3F9-B12-C8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3F9-B12-C8
Applications:	WB
Recommend Dilution:	WB: 1:1000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The immunogen for CDK4 antibody: purified recombinant human CDK4 protein fragments expressed in E.coli.
Formulation:	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.02% sodium azide, 50% glycerol
Purification:	Affinity purified
Predicted Protein Size:	33 kDa
Gene Name:	cyclin-dependent kinase 4
Database Link:	NP_000066 Entrez Gene 12567 Mouse Entrez Gene 94201 Rat Entrez Gene 1019 Human
Background:	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of <i>S. cerevisiae</i> cdc28 and <i>S. pombe</i> cdc2. It 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). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported.
Synonyms:	CMM3; PSK-J3
Protein Families:	Druggable Genome, Protein Kinase

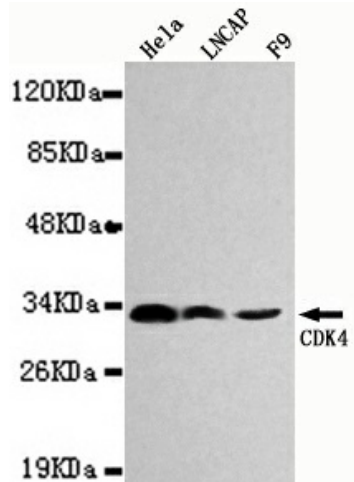


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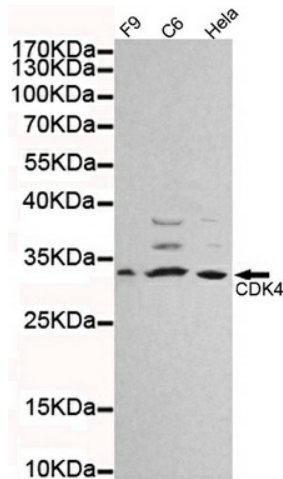
Protein Pathways:

Bladder cancer, Cell cycle, Chronic myeloid leukemia, Glioma, Melanoma, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer, Small cell lung cancer, T cell receptor signaling pathway, Tight junction

Product images:



Western blot detection of CDK4 in HeLa, Lncap and F9 cell lysates using CDK4 mouse mAb (1:1000 diluted). Predicted band size: 34kDa. Observed band size: 33kDa.



Western blot detection of CDK4 in HeLa, C6 and F9 cell lysates using CDK4 mouse mAb (1:1000 diluted). Predicted band size: 34kDa. Observed band size: 34kDa.