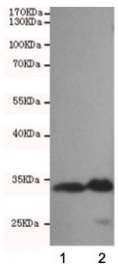
CDK4 Antibody [clone 3D12-A7-F11] (F54049)

Catalog No.	Formulation	Size
F54049-0.1ML	In PBS with 50% glycerol and 0.03% ProClin 300	0.1 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	3D12-A7-F11
Purity	Protein G affinity
UniProt	P11802
Applications	Western blot: 1:500
Limitations	This CDK4 antibody is available for research use only.



Western blot testing of human 1) HeLa and 2) K562 cell lysates using CDK4 antibody at 1:500. Predicted molecular weight ~34 kDa.

Description

Ser/Thr-kinase component of cyclin D-CDK4 (DC) complexes that phosphorylate and inhibit members of the retinoblastoma (RB) protein family including RB1 and regulate the cell-cycle during G1/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complexes and the subsequent transcription of E2F target genes which are responsible for the progression through the G1 phase. Hypophosphorylates RB1 in early G1 phase. Cyclin D-CDK4 complexes are major integrators of various mitogenenic and antimitogenic signals. Also phosphorylates SMAD3 in a cell-cycle-dependent manner and represses its transcriptional activity. Component of the ternary complex, cyclin D/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

[UniProt]

Application Notes

The stated application concentrations are suggested starting points. Titration of the CDK4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A human recombinant protein was used as the immunogen for this CDK4 antibody.

Storage

Store the CDK4 antibody at -20oC.

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