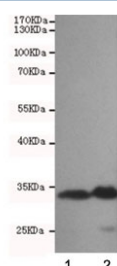


## CDK4 Antibody [clone 3D12-A7-F11] (F54049)

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

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1
<b>Clone Name</b>	3D12-A7-F11
<b>Purity</b>	Protein G affinity
<b>UniProt</b>	P11802
<b>Applications</b>	Western Blot : 1:500
<b>Limitations</b>	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 mitogenic 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.