

## (KO Validated) CDK4 Polyclonal Antibody

catalog number: E-AB-93282

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

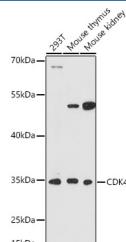
<b>Reactivity</b>	Human;Mouse
<b>Immunogen</b>	A synthetic peptide of human CDK4
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification</b>	Affinity purification
<b>Buffer</b>	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer and 50% glycerol.

### Applications

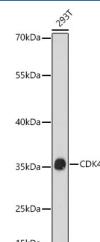
### Recommended Dilution

<b>WB</b>	1:500-1:2000
<b>IHC</b>	1:50-1:100
<b>IP</b>	1:50-1:200
<b>IF</b>	1:50-1:200

### Data



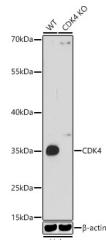
Western blot analysis of extracts of various cell lines using CDK4 Polyclonal Antibody at 1:1000 dilution.



Western blot analysis of extracts of 293T cells using CDK4 Polyclonal Antibody at 1:1000 dilution.

**Observed-MW:35 kDa**

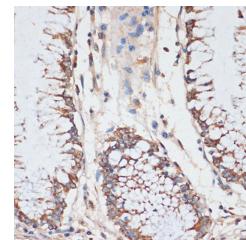
**Calculated-MW:20 kDa/33 kDa**



Western blot analysis of extracts from wild type(WT) and CDK4 knockout (KO) HeLa cells using CDK4 Polyclonal Antibody at 1:1000 dilution.

**Observed-MW:35 kDa**

**Calculated-MW:20 kDa/33 kDa**



Immunohistochemistry of paraffin-embedded human colon using CDK4 Polyclonal Antibody at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS

buffer pH 7.2 before commencing with IHC staining protocol.

### For Research Use Only

Toll-free: 1-888-852-8623

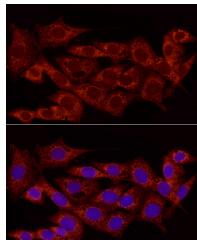
Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086

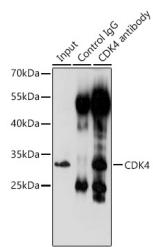
Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017

Rev. V1.7



Immunofluorescence analysis of NIH/3T3 using CDK4 Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 200ug extracts of 293T cells using 3ug CDK4 Polyclonal Antibody. Western blot was performed from the immunoprecipitate using CDK4 Polyclonal Antibody at a dilution of 1:1000.

**Observed-MW:35 kDa**

**Calculated-MW:20 kDa/33 kDa**

### Preparation & Storage

#### Storage

Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

#### Shipping

The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

### 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 *S. cerevisiae* cdc28 and *S. pombe* 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.

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