

## Cdk4 Polyclonal Antibody

### Description

|                                |  |
|--------------------------------|--|
| <b>Product type</b>            | Primary Antibody   |
| <b>Code</b>                    | BT-AP01631   |
| <b>Host</b>                    | Rabbit   |
| <b>Isotype</b>                 | IgG  |
| <b>Size</b>                    | 20ul, 50ul, 100ul  |
| <b>Immunogen</b>               | The antiserum was produced against synthesized peptide derived from the N-terminal region of human CDK4. AA range:1-50 |
| <b>Mol wt</b>                  | 33730  |
| <b>Species reactivity</b>      | Human, Mouse, Rat  |
| <b>Clonality</b>               | Polyclonal   |
| <b>Recommended application</b> | IF, WB, IHC-p, ELISA   |
| <b>Concentration</b>           | 1 mg/ml  |
| <b>Full name</b>               | Cdk4 Antibody  |
| <b>Synonyms</b>                | CDK4; Cyclin-dependent kinase 4; Cell division protein kinase 4; PSK-J3  |

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

Cyclin-dependent kinase 4 encoded by CDK4 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.

### Recommended Dilution

WB: 1: 500 - 1: 2000

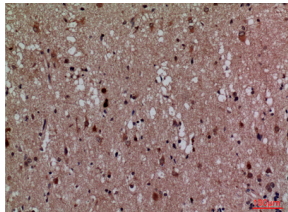
IHC-p: 1: 100 - 300

ELISA: 1: 20000

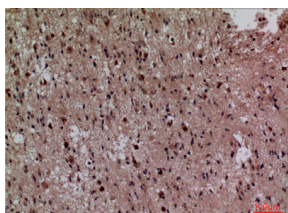
IF: 1: 50 - 200

Not yet tested in other applications.

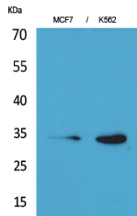
### Images



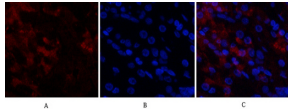
Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100



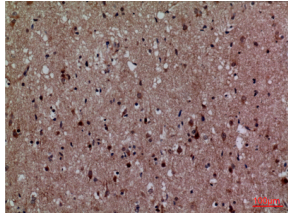
Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100



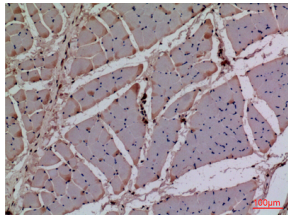
Western Blot analysis of MCF7, K562 cells using Cdk4 Polyclonal Antibody. Secondary antibody was diluted at 1:20000



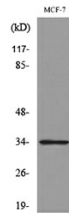
Immunofluorescence analysis of human-stomach tissue. 1, Cdk4 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



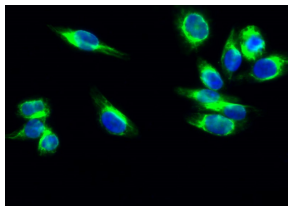
Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100



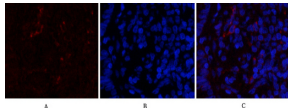
Immunohistochemical analysis of paraffin-embedded rat-muscle, antibody was diluted at 1:100



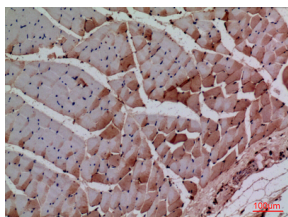
Western blot analysis of lysate from MCF7 cells, using CDK4 Antibody.



Immunofluorescence analysis of HeLa cell. 1, Cdk4 Polyclonal Antibody (green) was diluted at 1:200 (4°C overnight). 2, Goat Anti Rabbit Alexa Fluor 488 was diluted at 1:1000 (room temperature, 50 min). 3, DAPI (blue) 10 min.



Immunofluorescence analysis of rat-lung tissue. 1, Cdk4 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunohistochemical analysis of paraffin-embedded rat-muscle, antibody was diluted at 1:100

## Storage

-20°C for one year

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