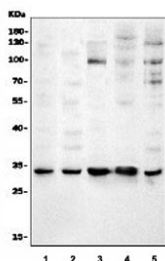


Cdk4 Antibody (R31947)

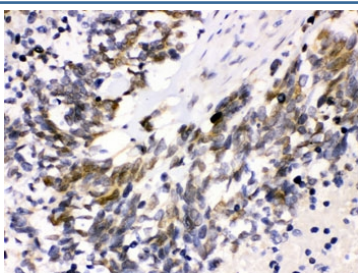
Catalog No.	Formulation	Size
R31947	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

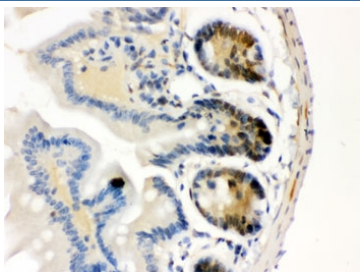
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P11802
Localization	Nuclear and cytoplasmic
Applications	Western Blot : 0.1-0.5ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml
Limitations	This Cdk4 antibody is available for research use only.



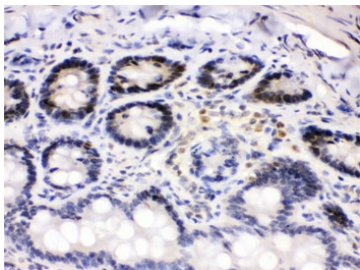
Western blot testing of 1) human HeLa, 2) human K562, 3) rat PC-12, 4) mouse NIH 3T3 and 5) mouse RAW264.7 cell lysate with Cdk4 antibody. Predicted molecular weight ~34 kDa.



IHC testing of FFPE human lung cancer tissue with Cdk4 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



IHC testing of FFPE mouse intestine with Cdk4 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



IHC testing of FFPE rat intestine with Cdk4 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.

Description

Cyclin-dependent kinase-4 (CDK4) is a protein-serine kinase involved in the cell cycle. Human cell division is regulated primarily at the G1-to-S or the G2-to-M boundaries within the cell cycle. The complexes formed by CDK4 and the D-type cyclins are involved in the control of cell proliferation during the G1 phase. CDK4 is inhibited by p16, also known as cyclin-dependent kinase inhibitor-2. CDK4 is mapped to 12q14. And CDK4 expression and activity are required for cytokine responsiveness in T cells.

Application Notes

Optimal dilution of the Cdk4 antibody should be determined by the researcher.

Immunogen

Amino acids 201-303 of human Cdk4 were used as the immunogen for the Cdk4 antibody.

Storage

After reconstitution, the Cdk4 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.