

Basic Information

Product Name	Anti-CDK4 Antibody (Clone#HOB-3)	
Gene Name	CDK4	
Source	Rabbit	
Clonality	Monoclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, ICC/IF, IP	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
Immunogen	A synthesized peptide derived from human CDK4	
Concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	34 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-200 ImmunoPrecipitation (IP): 1:20	

Storage

12 months from date of receipt, -20°C as supplied.

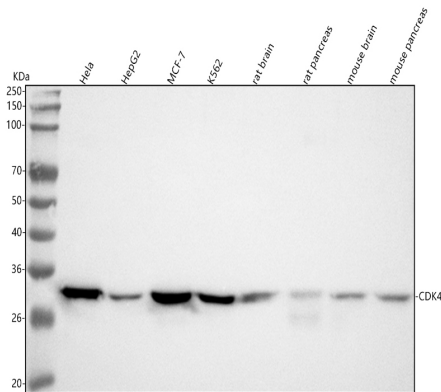
Background Information

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.

Reference

Anti-CDK4 Antibody (Clone#HOB-3)被引用在3文献中。

Selected Validation Data



Western blot analysis of anti-CDK4 antibody (BM4672). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,

Lane 2: human HepG2 whole cell lysates,

Lane 3: human MCF-7 whole cell lysates,

Lane 4: human K562 whole cell lysates,

Lane 5: rat brain tissue lysates,

Lane 6: rat pancreas tissue lysates,

Lane 7: mouse brain tissue lysates,

Lane 8: mouse pancreas tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-CDK4 antigen affinity purified monoclonal antibody (BM4672) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CDK4 at approximately 34 kDa. The expected band size for CDK4 is at 34 kDa.