Anti-CDK7 Antibody

Catalog Number: *PB0564*

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Basic Information

Product Name	Anti-CDK7 Antibody
Gene Name	CDK7
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Cdk7 recombinant protein (Position: D31-F346). Human Cdk7 shares 94.9% and 96.1% amino acid (aa) sequence identity with mouse and rat Cdk7, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	39 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

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

Background Information

Cyclin-dependent kinase 7, also known as cell division protein kinase 7, is an enzyme that in humans is encoded by the CDK7 gene. The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. The gene was assigned to human chromosome 5q13.2. Serine/threonine kinase involved in cell cycle control and in RNA polymerase II-mediated RNA transcription. CDK7 is the catalytic subunit of the CDK-activating kinase (CAK) complex. It is required for DNA-bound peptides-mediated transcription and cellular growth inhibition.

Selected Validation Data

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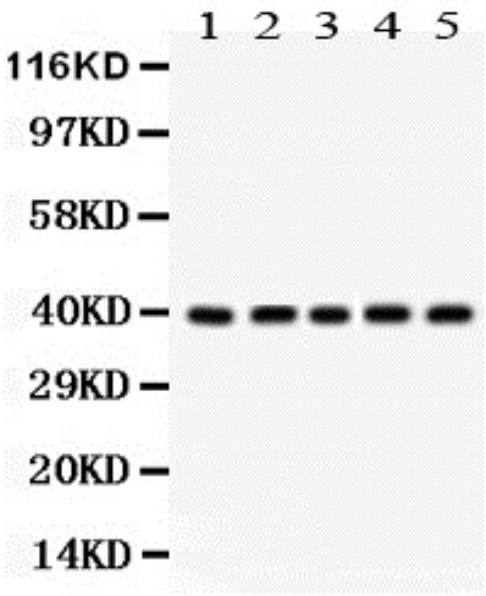

Western blot analysis of CDK7 using anti-CDK7 antibody (PB0564). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: MCF-7 whole cell lysates,
Lane 2: HELA whole cell lysates,
Lane 3: A549 whole cell lysates,
Lane 4: HEPG2 whole cell lysates,
Lane 5: 293T whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-CDK7 antigen affinity purified polyclonal antibody (PB0564) 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 CDK7 at approximately 39 kDa. The expected band size for CDK7 is at 39 kDa.