

Basic Information

Product Name	Anti-CDK7 Antibody
Gene Name	CDK7
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Cdk7, identical to the related rat sequence, and different from the related human sequence by two amino acids.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	39 kDa
Dilution Ratios	Western blot (WB):1:500-2000

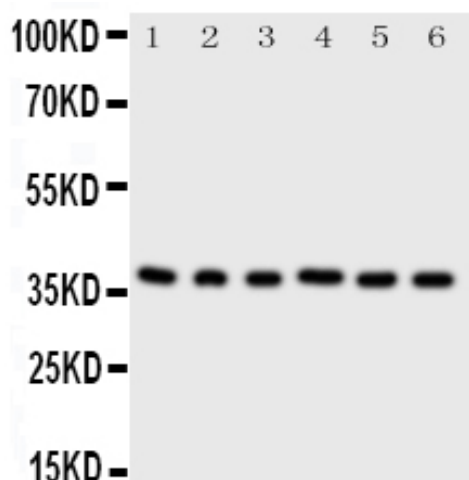
Storage

12 months from date of receipt, -20°C 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



Western blot analysis of CDK7 using anti-CDK7 antibody (BA1521-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Rat testis tissue lysates,

Lane 2: Rat ovary tissue lysates,

Lane 3: HELA whole cell lysates,

Lane 4: MCF-7 whole cell lysates,

Lane 5: A549 whole cell lysates,

Lane 6: COLO320 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 (BA1521-2) 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.