

# Anti-CDK7 Antibody

**CATALOG NO.:** A2039-100 (100 µl)

**BACKGROUND DESCRIPTION:** The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of *Saccharomyces cerevisiae* cdc28, and *Schizosaccharomyces pombe* cdc2, and are known to be important regulators of cell cycle progression. This protein forms a trimeric complex with cyclin H and MAT1, which functions as a Cdk-activating kinase (CAK). It is an essential component of the transcription factor TFIIF, that is involved in transcription initiation and DNA repair. This protein is thought to serve as a direct link between the regulation of transcription and the cell cycle.

**ALTERNATE NAMES:** CAK; CAK1; CDKN7; MO15; STK1; Cyclin-dependent kinase 7; 39 kDa protein kinase; p39 Mo15; CDK-activating kinase 1; Cell division protein kinase 7; Serine/threonine-protein kinase 1; TFIIF basal transcription factor complex kinase subunit

**ANTIBODY TYPE:** Polyclonal

**HOST/ISOTYPE:** Rabbit / IgG

**IMMUNOGEN:** KLH-conjugated synthetic peptide targeting a sequence within the C-term region of human CDK7

**MOLECULAR WEIGHT:** 39 kDa

**PURIFICATION:** Affinity purified

**FORM:** Liquid

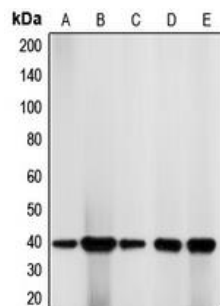
**FORMULATION:** In 0.42% Potassium phosphate; 0.87% NaCl; pH 7.3; 30% glycerol; and 0.01% sodium azide

**SPECIES REACTIVITY:** Human

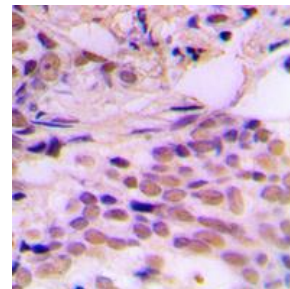
**STORAGE CONDITIONS:** Store at -20°C. Avoid freeze / thaw cycles

**APPLICATIONS AND USAGE:** WB 1:500 - 1:1000, IHC 1:100 - 1:200

**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user



Western blot analysis of CDK7 expression in K562 (A); Jurkat (B); HeLa (C); NIH3T3 (D); HT29 (E) whole cell lysates.



Immunohistochemical analysis of CDK7 staining in formalin fixed paraffin embedded human breast cancer tissue section. The section was subjected to heat mediated antigen retrieval with sodium citrate buffer at pH 6.0 prior to incubation with the antibody at RT and then detected using an HRP conjugated compact polymer system. The chromogen used was DAB. Counterstaining of tissue section was performed with hematoxylin and mounted with DPX.

## RELATED PRODUCTS:

YAP1 Antibody (3815)  
 Phospho-Cdk2 (Thr160) Antibody (A1261)  
 C-Myc Antibody (6767)  
 PIM1 Antibody (3787R)