

bs-10997R**[Primary Antibody]****phospho-CDK7 (Thr170) Rabbit pAb****Bioss**
ANTIBODIES

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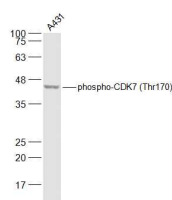
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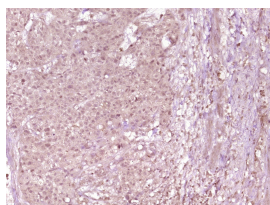
400-901-9800

— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 1022**SWISS:** P50613**Target:** phospho-CDK7 (Thr170)**Immunogen:** KLH conjugated Synthesised phosphopeptide derived from human CDK7 around the phosphorylation site of Thr170: AY(p-T)HQ.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

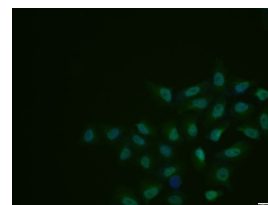
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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 TFIIH, 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.**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**ICC/IF** (1:100)**Reactivity:** Human (predicted: Mouse, Rat, Rabbit, Pig, Dog, Horse)**Predicted MW.:** 39 kDa**Subcellular Location:** Cytoplasm ,Nucleus**— VALIDATION IMAGES —**

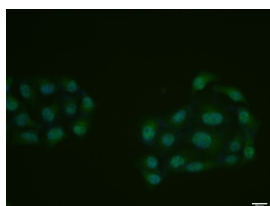
Sample: A431(Human) Cell Lysate at 30 ug
 Primary: Anti-phospho-CDK7 (Thr170)
 (bs-10997R) at 1/500 dilution Secondary:
 IRDye800CW Goat Anti-Rabbit IgG at 1/20000
 dilution Predicted band size: 39 kD Observed
 band size: 39 kD



Paraformaldehyde-fixed, paraffin embedded
 (Human esophageal carcinoma); Antigen
 retrieval by boiling in sodium citrate buffer
 (pH6.0) for 15min; Block endogenous peroxidase
 by 3% hydrogen peroxide for 20 minutes;
 Blocking buffer (normal goat serum) at 37°C for
 30min; Antibody incubation with (phospho-
 CDK7 (Thr170)) Polyclonal Antibody,
 Unconjugated (bs-10997R) at 1:400 overnight at
 4°C, followed by operating according to SP
 Kit(Rabbit) (sp-0023) instructions and DAB
 staining.



Hela cell; 4% Paraformaldehyde-fixed; Triton
 X-100 at room temperature for 20 min; Blocking
 buffer (normal goat serum, C-0005) at 37°C for 20
 min; Antibody incubation with (phospho-CDK7
 (Thr170)) polyclonal Antibody, Unconjugated
 (bs-10997R) 1:100, 90 minutes at 37°C; followed
 by a conjugated Goat Anti-Rabbit IgG antibody
 at 37°C for 90 minutes, DAPI (blue, C02-04002)
 was used to stain the cell nuclei.



Hela cell; 4% Paraformaldehyde-fixed; Triton
 X-100 at room temperature for 20 min; Blocking

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (phospho-CDK7 (Thr170)) polyclonal Antibody, Unconjugated (bs-10997R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.