

## [KO Validated] Anti-CDK7 Rabbit pAb

Purified Rabbit Polyclonal Antibody

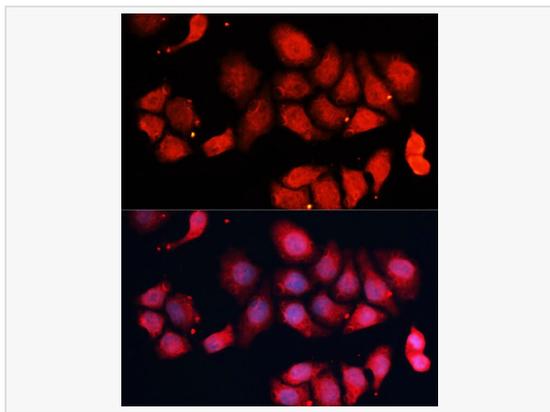
Catalog # P101384

### Product Information

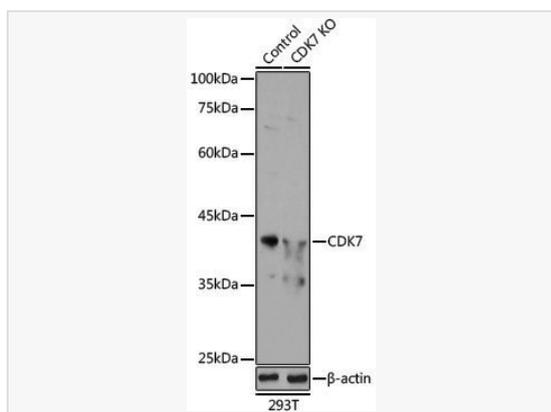
|             |   |
|-------------|---|
| Application | WB, IF (Cell)/ICC, ELISA  |
| Reactivity  | Human, Mouse, Rat   |
| Dilution    | WB 1:500~1:1,000; IF 1:50~1:200   |
| Host        | Rabbit  |
| Clonality   | Polyclonal  |
| Isotype     | IgG   |
| Label       | Unconjugated  |
| Immunogen   | Recombinant fusion protein containing a sequence corresponding to amino acids 211-346 of human CDK7 (NP_001790.1).          |
| Format      | Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.                     |
| Storage     | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-CDK7 Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.                      |

### Protein Information

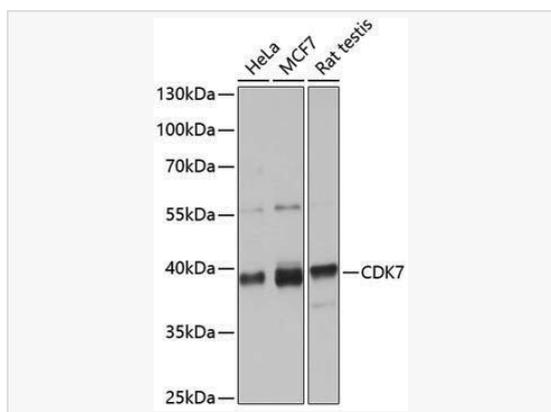
|               |  |
|---------------|--|
| Synonyms      | CAK; CAK1; HCAK; MO15; STK1; CDKN7; p39MO15; K7.   |
| Calculated MW | Calculated MW: 39 kDa; Observed MW: 40 kDa   |
| Uniprot ID    | P50613   |
| Gene ID       | 1022   |
| Background    | The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of <i>Saccharomyces cerevisiae</i> cdc28, and <i>Schizosaccharomyces pombe</i> 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. |



Immunofluorescence analysis of HeLa cells using CDK7 Rabbit pAb (P101384) at dilution of 1:100 (40× lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Western blot analysis of lysates from wild type (WT) and CDK7 knockout (KO) 293T cells, using [KO Validated] CDK7 Rabbit pAb (P101384) at 1:1,000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution. Lysates/proteins: 25μg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Kit. Exposure time: 180s.



Western blot analysis of various lysates using [KO Validated] CDK7 Rabbit pAb (P101384) at 1:1,000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution. Lysates/proteins: 25μg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Kit. Exposure time: 15s.