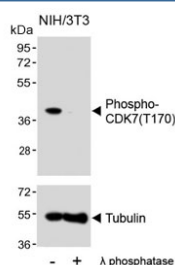


Phospho-CDK7 Antibody (pT170) (F54805)

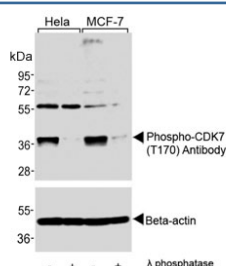
Catalog No.	Formulation	Size
F54805-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54805-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

[Bulk quote request](#)

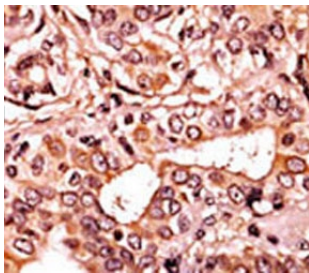
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P50613
Applications	Immunohistochemistry (FFPE) : 1:50-1:100 Dot Blot : 1:500 Western Blot : 1:500-1:1000
Limitations	This phospho-CDK7 antibody is available for research use only.



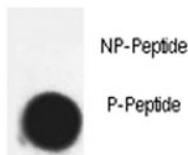
Western blot testing of lysate from mouse NIH 3T3 cells treated or non-treated with lambda protein phosphatase with phospho-CDK7 antibody. Expected molecular weight ~39 kDa.



Western blot testing of lysate from human HeLa and MCF7 cells treated or non-treated with lambda protein phosphatase with phospho-CDK7 antibody. Expected molecular weight ~39 kDa.



IHC testing of FFPE human breast tissue with phospho-CDK7 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Dot blot analysis of phospho-CDK7 antibody. 50 nanograms of phos-peptide or nonphos-peptide per dot were spotted.

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 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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the phospho-CDK7 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A synthetic peptide corresponding the amino acids surrounding phosphorylated T170 was used as the immunogen for the phosph-CDK7 antibody.

Storage

Aliquot the phospho-CDK7 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.