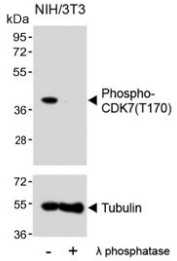
# Phospho-CDK7 Antibody (pT170) (F54805)

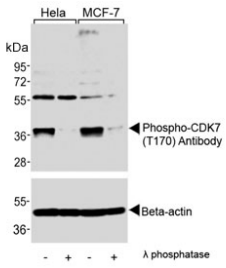
| Catalog No. | Formulation | Size |
|---|---|---|
| F54805-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F54805-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

**Bulk quote request**

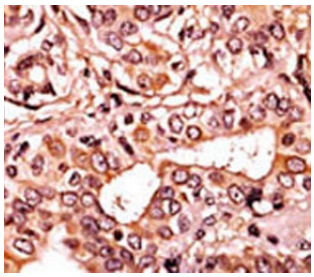
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse |
| **Format** | Purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Antigen affinity purified |
| **UniProt** | P50613 |
| **Applications** | Immunohistochemistry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



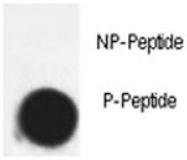

Western blot testing of lysate from mouse NIH 3T3 cells treated or non-treated with lambda protein phosphatase with phospho-CDK7 antibody. Expected molecular weight ~39 kDa.




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.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com