

## Recombinant Phospho-Histone H3 (Thr45) Monoclonal Antibody

catalog number: **AN302075L**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

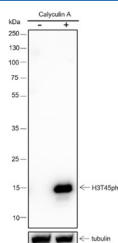
### Description

<b>Reactivity</b>	Human;
<b>Immunogen</b>	Phosphorylated human Histone H3 (Thr45) peptide
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG, κ
<b>Clone</b>	A795
<b>Purification</b>	Protein A purified
<b>Buffer</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

### Applications Recommended Dilution

<b>WB</b>	1:500-1:1000
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### Data



Western Blot with Phospho-Histone H3 (Thr45) Monoclonal

Antibody at dilution of 1:1000. (-): Jurkat, (2): Jurkat +  
calyculin A (100nM, 30min)

**Observed-MW:15 kDa**

**Calculated-MW:15 kDa**

### Preparation & Storage

<b>Storage</b>	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
<b>Shipping</b>	Ice bag

### Background

Histone post-translational modifications (PTMs) are key mechanisms of epigenetics that modulate chromatin structures, termed as “histone code”. The PTMs on histone including acetylation, methylation, phosphorylation and novel acylation directly affect the accessibility of chromatin to transcription factors and other epigenetic regulators, altering genome stability, gene transcription, etc. Histone phosphorylation occurs on serine, threonine and tyrosine residues on the amino-terminal of core histones. This histone mark plays roles in DNA repair, transcription and chromatin remodeling. The best-known histone phosphorylation site is histone variant H2A.x Ser139ph, which were reported to be involved in the response to DNA damage. Histone phosphorylation is mainly involved in processes during both mitosis and meiosis. Many kinases and phosphatases regulate histone phosphorylation levels.

### For Research Use Only

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