

# Phospho-Histone H3 (Ser10) Polyclonal Antibody

## Product Details

Size	100 µL
Species Reactivity	Fruit fly, Human, Mouse, Non-human primate, Rat, Xenopus, Yeast
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding pSer10 of human histone H3
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	0.01M HEPES, pH 7.5, with 100µg/mL BSA, 0.15M NaCl, 50% glycerol
Contains	no preservative
Storage Conditions	-20°C
RRID	AB_10984484

Applications	Tested	Dilution	Published
Immunocytochemistry (ICC)	✓	1:800	1 Publication
Immunofluorescence (IF)	✓	1:800	1 Publication
Western Blot (WB)	✓	1:1000	1 Publication
Flow Cytometry (Flow)	✓	1:50	
Immunohistochemistry (Frozen) (IHC (F))	✓	1:400	
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:200	
Peptide Array (Array)	✓	1:2,000	

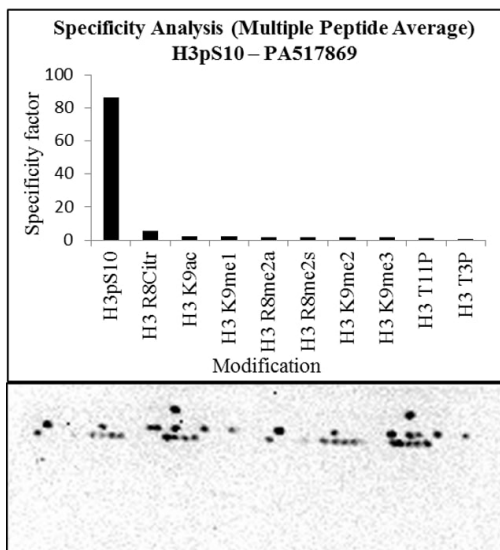
## Product Specific Information

Antibodies to this protein (and modification) were previously sold as part of a Thermo Scientific Cellomics High Content Screening Kit. This replacement antibody is now recommended for researchers who need an antibody for high content cell based assays. It has been thoroughly tested and validated for cellular immunofluorescence (IF) applications. Further optimization including the selection of the most appropriate fluorescent Dylight conjugated secondary antibody may have to be performed for your high content assay.

It is not recommended to aliquot this antibody.

This antibody is not cross-reactive with other phosphorylated histones or with acetylated histones.

## Advanced Verification Data

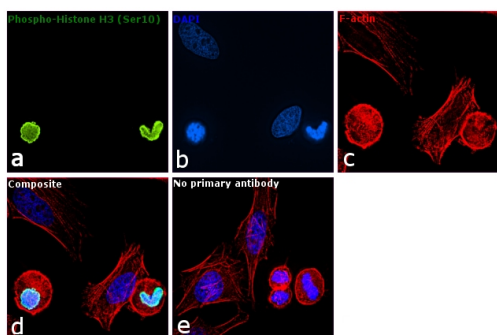
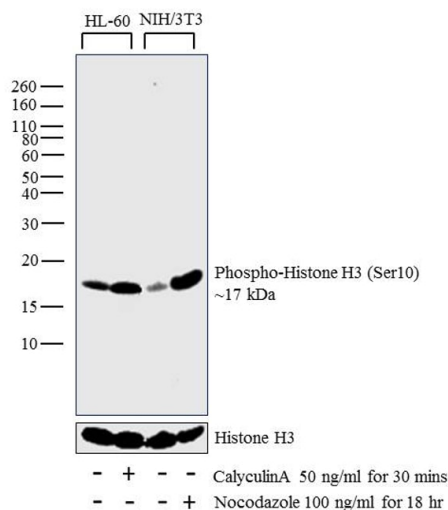


### Phospho-Histone H3 (Ser10) Antibody (PA5-17869)

Antibody specificity for modified targets can be established using peptide arrays by quantifying detection of the target protein along with closely related proteins. Peptide array of Histone H3pS10 using Anti-Phospho-Histone H3 (Ser10) Antibody: An array of the specific peptide and other relevant peptides when tested using Anti-Phospho-Histone H3 (Ser10) Polyclonal Antibody (Product # PA5-17869), showed that the Histone H3pS10 modification was specifically recognized by the antibody. Peptide Array validation info.

### Phospho-Histone H3 (Ser10) Antibody (PA5-17869)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot analysis of Phospho-Histone H3 (Ser10) using Phospho-Histone H3 (Ser10) antibody (Product # PA5-17869), shows increased expression of phosphorylated Histone H3 on Ser 10 upon CalyculinA treatment in HL-60 cell line and Nocodazole treatment in NIH/3T3 cell line. Cell Treatment validation info.



### Phospho-Histone H3 (Ser10) Antibody (PA5-17869)

Detection of differential subcellular localization of the target protein demonstrates antibody specificity. Immunofluorescence analysis of Phospho-Histone H3(Ser10) using anti-Phospho-Histone H3(Ser10) Polyclonal antibody (Product # PA517869 ) shows localization of Phospho-Histone H3 (Ser 10) predominantly in nucleus of dividing HeLa cells. Relative expression validation info.

View more figures on [thermofisher.com](https://thermofisher.com)

## 3 References

### Immunocytochemistry (1)

Cell cycle (Georgetown, Tex.)

#### Autophagy protects ovarian cancer-associated fibroblasts against oxidative stress.

"PA5-17869 was used in immunocytochemistry and western blot to investigate protection of ovarian cancer-associated fibroblasts against oxidative stress by autophagy"

Authors: Wang Q,Xue L,Zhang X,Bu S,Zhu X,Lai D

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2016

### Immunofluorescence (1)

Cell cycle (Georgetown, Tex.)

#### Autophagy protects ovarian cancer-associated fibroblasts against oxidative stress.

"PA5-17869 was used in immunocytochemistry and western blot to investigate protection of ovarian cancer-associated fibroblasts against oxidative stress by autophagy"

Authors: Wang Q,Xue L,Zhang X,Bu S,Zhu X,Lai D

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2016

### Western Blot (1)

Cell cycle (Georgetown, Tex.)

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Authors: Wang Q,Xue L,Zhang X,Bu S,Zhu X,Lai D

**Species**  
Not Applicable

**Dilution**  
Not Cited

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2016

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