

For Research Use Only

# Histone-H3 Polyclonal antibody



Catalog Number: 17168-1-AP **270 Publications**

## Basic Information

<b>Catalog Number:</b> 17168-1-AP	<b>GenBank Accession Number:</b> BC015544	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150UL, Concentration: 247 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 333932	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:50-1:200 IF 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> histone cluster 2, H3a	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 136 aa, 15 kDa	
<b>Immunogen Catalog Number:</b> AG10644	<b>Observed MW:</b> 15-17 kDa	

## Applications

**Tested Applications:**  
FC, IF, IHC, WB, ELISA

**Cited Applications:**  
IF, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
African clawed frog, Arabidopsis, Bovine, human, monkey, mouse, rat, swine, yellow catfish

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** HEK-293 cells, mouse brain tissue, mouse skeletal muscle tissue, mouse liver tissue, A549 cells

**IHC:** human skin cancer tissue, human breast cancer tissue

**IF:** HEK-293 cells, HeLa cells

## Background Information

Histone-H3, histone cluster 2, H3a is the core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machinery which requires DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Histone-H3 is expressed during S phase; then expression strongly decreases as cell division slows down during the process of differentiation.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuqian Wang	32942847	J Agric Food Chem	WB
Dan-Qian Chen	33062239	Ther Adv Chronic Dis	WB
Han Liao	26415619	Chem Biol Interact	WB

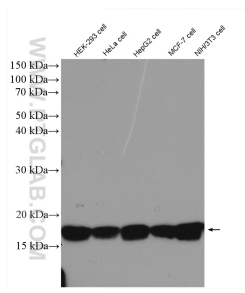
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

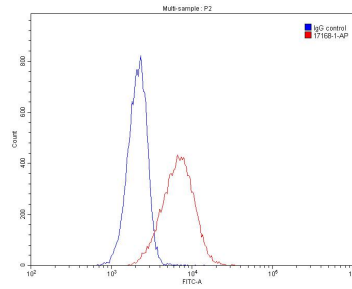
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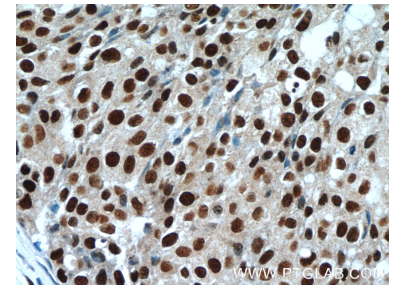
## Selected Validation Data



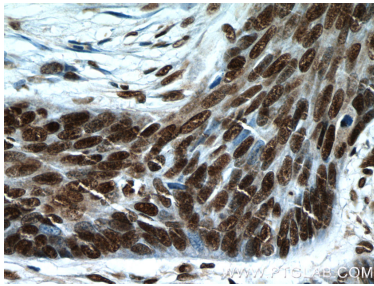
Various lysates were subjected to SDS PAGE followed by western blot with 17168-1-AP (Histone-H3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



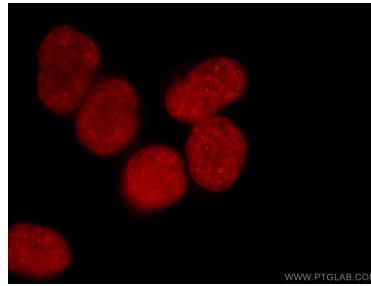
$1 \times 10^6$  HeLa cells were stained with 0.20ug Histone-H3 antibody (17168-1-AP, red) and control antibody (blue). Fixed with 90% MeOH.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 17168-1-AP (Histone-H3 Antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 17168-1-AP (Histone-H3 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HEK-293 cells using 17168-1-AP (Histone-H3 antibody) at dilution of 1:50 and Rhodamine-Goat anti-Rabbit IgG.