

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 68345-1-Ig	<b>GenBank-Zugangsnummer:</b> BC066245	<b>Reinigungsmethode:</b> Protein-A-Reinigung
<b>Größe:</b> 150ul, Konzentration: 1000 µg/ml von 8350 Nanodrop;	<b>GeneID (NCBI):</b> 1A2A3	<b>CloneNo.:</b> 1A2A3
<b>Wirt:</b> Maus	<b>Vollständiger Name:</b> histone cluster 1, H3a	<b>Empfohlene Verdünnungen:</b> WB 1:5000-1:50000 IP 0.5-4.0 µg für IP und 1:1000-1:4000 für WB
<b>Isotyp:</b> IgG2b	<b>Beobachtete Masse:</b> 15 kDa	<b>IHC 1:500-1:2000</b> <b>IF 1:500-1:2000</b>

## Anwendungen

### Geprüfte Anwendungen:

IF, IHC, IP, WB, ELISA

### In Publikationen genannte Anwendungen:

WB

### Getestete Reaktivität:

Huhn, Human, Maus, Ratte, Wheat, Zebrafisch

### Zitierte Arten:

Maus

**Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

### Positivkontrollen:

**WB:** LNCaP-Zellen, HEK-293-Zellen, HeLa-Zellen, Hühnerhirngewebe, Jurkat-Zellen, NIH/3T3-Zellen, Zebrafisch

**IP:** HeLa-Zellen,

**IHC:** Maushodengewebe,

**IF:** MCF-7-Zellen, A431-Zellen, HeLa-Zellen

## Hintergrundinformationen

Histones are small, highly basic proteins that consist of a globular domain with unstructured N- and C-terminal tails protruding from the main structure. Histone H3 is one of the five main histones that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. In addition to their role in DNA compartmentalization, histones also play crucial roles in various biologic processes, including gene expression and regulation, DNA repair, chromatin condensation, cell cycle progression, chromosome segregation, and apoptosis. The ability of histones to regulate chromatin dynamics primarily originates from various posttranslational modifications carried out by histone-modifying enzymes.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Boying Zhao	37163872	Redox Biol	WB

## Lagerung

### Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

### Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

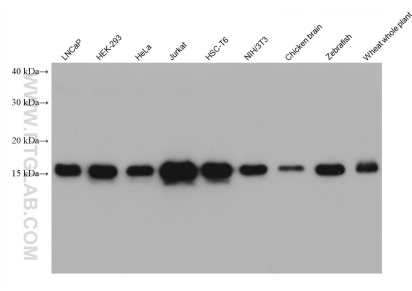
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

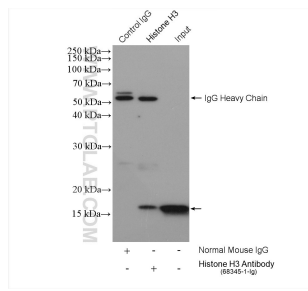
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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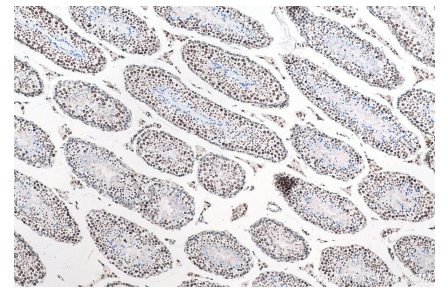
## Ausgewählte Validierungsdaten



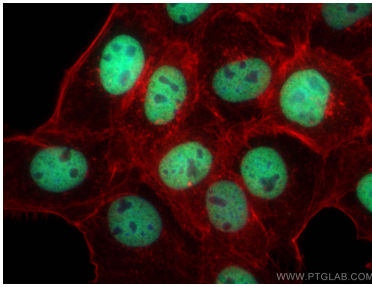
Various lysates were subjected to SDS PAGE followed by western blot with 68345-1-Ig (HIST1H3A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



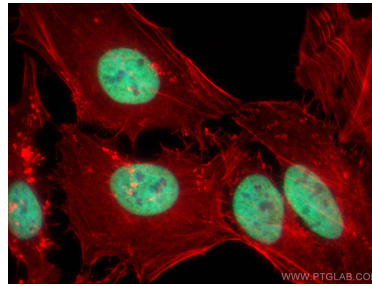
IP result of anti-Histone H3(IP:68345-1-Ig, 4ug; Detection:68345-1-Ig 1:2000) with HeLa cells lysate 1800 ug.



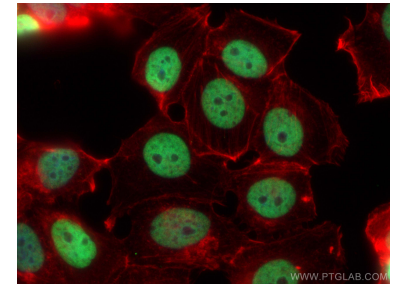
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 68345-1-Ig (HIST1H3A antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using Histone H3 antibody (68345-1-Ig, Clone: 1A2A3 ) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Histone H3 antibody (68345-1-Ig, Clone: 1A2A3 ) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Histone H3 antibody (68345-1-Ig, Clone: 1A2A3 ) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).