For Research Use Only

Histone H3 Monoclonal antibody, PBS Only

Antibodies | ELISA kits | Proteins www.ptglab.com

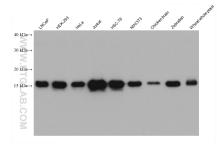
Catalog Number:68345-1-PBS

Basic Information	Catalog Number: 68345-1-PBS	GenBank Accession Number: BC066245	Purification Method: Protein A purification
	Size: 100ug, Concentration: 1 mg/ml by Nanodrop; Source: Mouse Isotype: IgG2b	GeneID (NCBI): 8350 UNIPROT ID: P68431 Full Name: histone cluster 1, H3a Observed MW: 15 kDa	CloneNo.: 1A2A3
Applications	Tested Applications: WB, IP, IF, FC, IHC, ELISA Species Specificity: Human, mouse, rat, chicken, zebrafis	h, wheat	
Background Information	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.		
Storage	Storage: Store at -20°C. Stable for one year af Storage Buffer: PBS only Aliquoting is unnecessary for -20°C :		

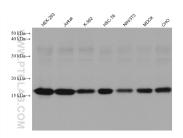
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

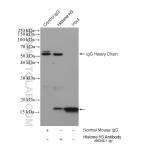
Selected Validation Data



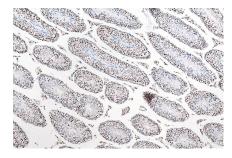
Various lysates were subjected to SDS PAGE followed by western blot with 68345-1-lg (HIST1H3A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68345-1-PBS in a different storage buffer formulation.



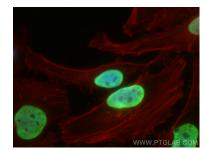
Various lysates were subjected to SDS PAGE followed by western blot with 68345-1-1g (Histone H3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68345-1-PBS in a different storage buffer formulation.



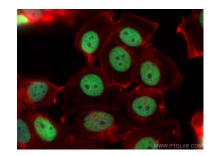
IP result of anti-Histone H3 (IP:68345-1-Ig, 4ug; Detection:68345-1-Ig 1:2000) with HeLa cells lysate 1800 ug. This data was developed using the same antibody clone with 68345-1-PBS in a different storage buffer formulation.



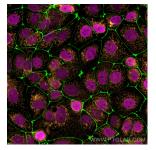
Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 68345-1-Ig (HIST1H3A antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68345-1-PBS in a different storage buffer formulation.



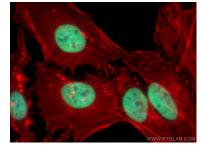
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Histone H3 antibody (68345-1-1g, Clone: 1A2A3) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red). This data was developed using the same antibody clone with 68345-1-PBS in a different storage buffer formulation.

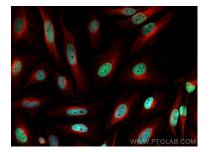


Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Histone H3 antibody (68345-1-lg, Clone: 1A2A3) at dilution of 1:1000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red). This data was developed using the same antibody clone with 68345-1-PBS in a different storage buffer formulation.

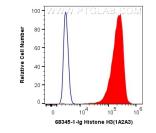


Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Histone H3 antibody (68345-1-lg, Clone: 1A2A3, labeled with CoraLite647-conjugated AffiniPure F(ab')2 Fragment Goat Anti-Mouse IgG (H+L),SA00014-10, magenta) at dilution of 1:400 and CoraLite Plus 488-conjugated ZO-1 antibody (CL488-21773, green), CHCHD6 antibody (CL488-21773, green), CHCHD6 antibody (66597-1-lg, Clone: 2A11E9, labeled with FlexAble CoraLite Plus 555 Antibody Labeling Kit for Mouse IgG2a, KFA042,





Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Histone H3 antibody (68345-1-lg, Clone: 1A2A3) at dilution of 1:1000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), Alpha Tubulin antibody (11224-1-AP, red). This data was developed using the same antibody clone with 68345-1-PBS in a different storage buffer formulation.





Immunofluorescent analysis of (4% PFA) fixed A431 cells using Histone H3 antibody (68345-1-lg, Clone: 1A2A3) at dilution of 1:1000 and Coralite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red). This data was developed using the same antibody clone with 68345-1-PBS in a different storage buffer formulation.

Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Histone H3 antibody (68345-1-1g, Clone: 1A2A3) at dilution of 1:1000 and Coralite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red). This data was developed using the same antibody clone with 68345-1-PBS in a different storage buffer formulation. 1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human Histone H3 (68345-1-lg, Clone:1A2A3) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (MPC-11) (65128-1-lg, Clone: MPC-11) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 68345-1-PBS in a different storage buffer