## For Research Use Only

## CoraLite® Plus 488-conjugated Histone H3 Monoclonal antibody

Catalog Number: CL488-68345

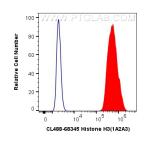
Basic Information	Catalog Number: CL488-68345	GenBank Accession Number: BC066245	Purification Method: Protein A purification	
	Concentration: 1000 ug/ml	GenelD (NCBI): 8350	CloneNo.: 1A2A3	
	Source: Mouse	UNIPROT ID: P68431	Recommended Dilutions: IF/ICC 1:50-1:500	
	lsotype: lgG2b	Full Name: histone cluster 1, H3a Observed MW: 15 kDa	Excitation/Emission maxima wavelengths: 493 nm / 522 nm	
				Applications
Species Specificity: human, mouse, rat, chicken, zebrafish, 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. Avoid exposu Storage Buffer: PBS with 50% glycerol, 0.05° Aliquoting is unnecessary fo		ent.	

For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 Histone H3 antibody (CL488-68345, Clone: 1A2A3) at dilution of 1:200.



1X10^6 HepG2 cells were intracellularly stained with 0.8 ug CoraLite® Plus 488 Anti-Human Histone H3 (CL488-68345, Clone:1A2A3) (red), or 0.8 ug CoraLite® Plus 488 Mouse IgG2b Isotype Control (MPC-11) (CL488-65128, Clone: MPC-11) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).