

For Research Use Only

# CoraLite® Plus 647-conjugated Histone-H3 Polyclonal antibody



Catalog Number: CL647-17168

## Basic Information

<b>Catalog Number:</b> CL647-17168	<b>GenBank Accession Number:</b> BC015544	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 333932	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q71DI3	
<b>Isotype:</b> IgG	<b>Full Name:</b> histone cluster 2, H3a	
<b>Immunogen Catalog Number:</b> AG10644	<b>Calculated MW:</b> 136 aa, 15 kDa	
	<b>Observed MW:</b> 15-17 kDa	

## Applications

**Tested Applications:**  
FC (Intra)

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

## 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.

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

**Aliquoting is unnecessary for -20°C storage**

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

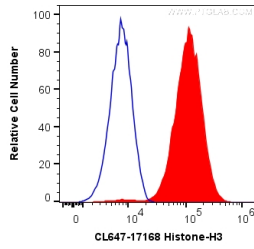
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.2 ug Coralite® Plus 647 Anti-Human Histone-H3 (CL647-17168) (red), or 0.2 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).