

For Research Use Only

# CoraLite® Plus 555-conjugated PLK1 Polyclonal antibody



Catalog Number: CL555-10305

Featured Product

## Basic Information

<b>Catalog Number:</b> CL555-10305	<b>GenBank Accession Number:</b> BC002369	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 1 mg/mL by Nanodrop;	<b>GeneID (NCBI):</b> 5347	<b>Excitation/Emission maxima wavelengths:</b> 554 nm / 570 nm
<b>Source:</b> Rabbit	<b>Full Name:</b> polo-like kinase 1 (Drosophila)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 68 kDa	
<b>Immunogen Catalog Number:</b> AG0284	<b>Observed MW:</b> 62 kDa	

## Applications

**Tested Applications:**  
FC

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

## Background Information

PLK1 (Polo-like kinase 1), also named as PLK and STPK13, belongs to the protein kinase superfamily, Ser/Thr protein kinase family and CDC5/Polo subfamily. PLK1 is a Serine/threonine-protein kinase that performs several important functions throughout M phase of the cell cycle, including the regulation of centrosome maturation and spindle assembly, the removal of cohesins from chromosome arms, the inactivation of APC/C inhibitors, and the regulation of mitotic exit and cytokinesis. The localization of Polo changes during the cell cycle. In interphase, Polo shows a mostly diffuse cytoplasmic localization. Polo becomes concentrated on centrosomes from early prophase and appears on centromeres or kinetochores from late prophase, before nuclear envelope breakdown (NEB). After anaphase onset, Polo relocates to the central spindle and remains enriched at the midbody ring in late stages of cytokinesis (PMID: 29167465).

## 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.

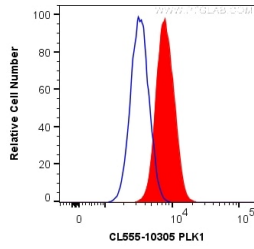
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 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  
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



1X10<sup>6</sup> A549 cells were intracellularly stained with 0.2 ug CoraLite® Plus 555 Anti-Human PLK1 (CL555-10305) (red), or 0.2 ug CL555 Rabbit Isotype Control Antibody (CL555-30000) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).