

For Research Use Only

PLK1 Polyclonal antibody

Catalog Number: 12098-1-AP **1 Publications**



Basic Information

Catalog Number: 12098-1-AP	GenBank Accession Number: BC014846	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 313 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5347	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P53350	
Isotype: IgG	Full Name: polo-like kinase 1 (Drosophila)	
Immunogen Catalog Number: AG2742	Calculated MW: 603 aa, 68 kDa	

Applications

Tested Applications: WB, IP, IHC, ELISA	Positive Controls: WB : A549 cells, U2OS cells IP : mouse testis tissue, IHC : human colon cancer tissue,
Cited Applications: WB, IHC	
Species Specificity: human, mouse, rat	
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Tong Kang	38782874	Mol Biotechnol	WB,IHC

Storage

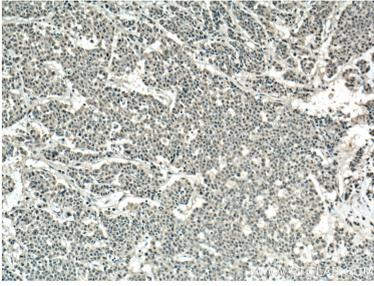
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

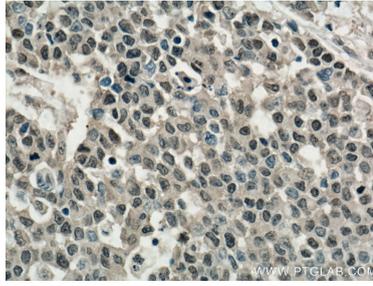
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 12098-1-AP (PLK1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 12098-1-AP (PLK1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).