

CoraLite® Plus 488-conjugated CDK1 Recombinant monoclonal antibody

Catalog Number: CL488-84271 Featured Product

Basic Information

Catalog Number:	CL488-84271	GenBank Accession Number:	BC014563	Purification Method:	Protein A purification
Source:	Rabbit	GenelD (NCBI):	983	CloneNo.:	240937C5
Isotype:	IgG	UNIPROT ID:	P06493	Recommended Dilutions:	IF/ICC: 1:50-1:500
Immunogen Catalog Number:	AG29018	Full Name:	cell division cycle 2, G1 to S and G2 to M	Excitation/Emission maxima:	wavelengths: 493 nm / 522 nm
		Calculated MW:	25 kDa		
		Observed MW:	34 kDa		

Applications

Tested Applications:	IF/ICC	Positive Controls:
Species Specificity:	human, mouse	IF/ICC : HeLa cells,

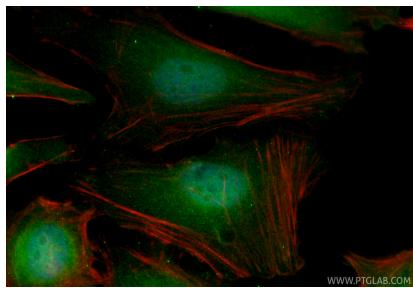
Background Information

CDK1, also named as CDC2, belongs to the protein kinase superfamily, CMGC Ser/Thr protein kinase family and CDC2/CDKX subfamily. CDK1 plays a key role in the control of the eukaryotic cell cycle. It is required in higher cells for entry into S-phase and mitosis. CDK1 is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. It is a component of the kinase complex that phosphorylates the repetitive C-terminus of RNA polymerase II. Mitotic cyclins stably associate with CDK1 and function as regulatory subunits. CDK1 has 2 isoforms produced by alternative splicing with the molecular mass of 34 kDa and 27 kDa. This antibody may have cross reaction with CDK2.

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, pH7.3
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 CDK1 antibody (C4488-84271, Clone: 240937C5) at dilution of 1:200, CL594-phalloidin (red).