

For Research Use Only

CoraLite® Plus 488-conjugated CDK1 Monoclonal antibody

Catalog Number:CL488-67575



Basic Information

Catalog Number: CL488-67575	GenBank Accession Number: BC014563	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 983	CloneNo.: 2A11E4
Source: Mouse	UNIPROT ID: P06493	Recommended Dilutions: FC (Intra): 0.80 ug per 10 ⁶ cells in a 100 µl suspension FC: 0.80 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG2a	Full Name: cell division cycle 2, G1 to S and G2 to M	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG29018	Calculated MW: 25 kDa Observed MW: 34 kDa	

Applications

Tested Applications: FC (Intra)	Positive Controls: FC (Intra) : HeLa cells,
Species Specificity: Human, Mouse, Rat	FC : 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.

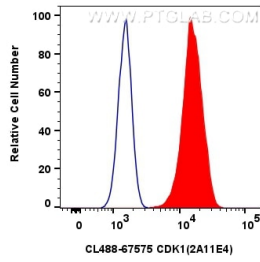
Storage

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

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

Selected Validation Data



1x10⁶ HeLa cells were intracellularly stained with 0.8 ug CoraLite® Plus 488-conjugated CDK1 Monoclonal antibody (CL488-67575, Clone:2A11E4) (red), or 0.8 ug CoraLite® Plus 488 Mouse IgG2a Isotype Control (C1.18.4) (CL488-65208, Clone: C1.18.4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).