

CoraLite[®] Plus 647-conjugated CDK1 Monoclonal antibody

Catalog Number: **CL647-67575**

Basic Information

Catalog Number:

CL647-67575

Size:1000 μ g/ml**Source:**

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG29018

GenBank Accession Number:

BC014563

GeneID (NCBI):

983

UNIPROT ID:

P06493

Full Name:

cell division cycle 2, G1 to S and G2 to M

Calculated MW:

25 kDa

Observed MW:

34 kDa

Purification Method:

Protein A purification

CloneNo.:

2A11E4

Excitation/Emission maxima wavelengths:

654 nm / 674 nm

Applications

Tested Applications:

FC (Intra)

Species Specificity:

Human, Mouse, Rat

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:

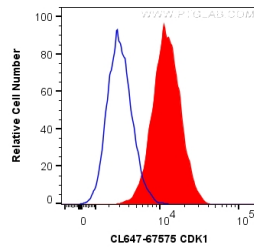
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



1×10^6 HeLa cells were intracellularly stained with 0.2 μ g Coralite® Plus 647 Anti-Human CDK1 (CL647-67575, Clone:2A11E4) (red), or 0.2 μ g isotype control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).