For Research Use Only

Phospho-CDK1 (Tyr15) Recombinant antibody

Catalog Number:82751-5-RR

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Basic Information

Catalog Number:
82751-5-RR

Concentration:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

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:
35 kDa

Purification Method:
Protein A purification

CloneNo.:
251130A5

Recommended Dilutions:
WB: 1:1000-1:8000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human

Positive Controls:

WB : HeLa cells, λ phosphatase treated HeLa cells

Background Information

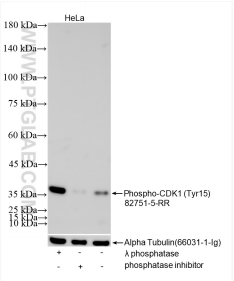
CDK1, also named as CDC2, belongs to the protein kinase superfamily, CMGC Ser/Thr protein kinase family and CDC2/CDKX subfamily. Phospho-CDK1 (Tyr15) is the inactive, inhibited form of cyclin-dependent kinase 1 (CDK1) generated when the tyrosine 15 residue of CDK1's ATP-binding loop is phosphorylated by the kinases WEE1 and PKMYT1. This single phosphorylation event clamps the kinase in an inactive conformation, preventing premature onset of mitosis by blocking ATP binding and cyclin B1 activation. (PMID: 14645578)

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Non-treated HeLa cells, phosphatase inhibitor treated HeLa cells and λ phosphatase treated HeLa cells were subjected to SDS PAGE followed by western blot with 82751-5-RR (Phospho-CDK1 (Tyr15) antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control.