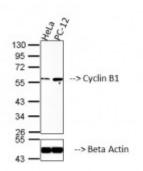


Anti-Cyclin B1 antibody



Western Blot (WB) analysis of 1. HeLa 2. PC-12 using Cyclin B1 Polyclonal Antibody. (STJ92534)



Description Cyclin B1 is a protein encoded by the CCNB1 gene which is

approximately 48,3 kDa. Cyclin B1 is localised to the cytoplasm and nucleus. It is involved in CDK-mediated phosphorylation and removal of Cdc6, regulation of PLK1 activity at G2/M transition and DNA damage response. This protein falls under the highly conserved cyclin family. It is a regulatory protein involved in mitosis. It forms a complex with p34(cdc2) to form the maturation-promoting factor. Cyclin B1 is expressed in the nervous system, skin, intestine, liver and lung. Mutations in the CCNB1 gene may result in thyroid lymphoma and cervical cancer. STJ92534 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of Cyclin B1 protein.

Model STJ92534

Host Rabbit

Reactivity Human, Mouse, Rat

Applications #N/A

Immunogen Synthesized peptide derived from human Cyclin B1 around the non-

phosphorylation site of S126.

Immunogen Region 60-140 aa

Gene ID 891

Gene Symbol CCNB1

Dilution range WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:20000

Specificity Cyclin B1 Polyclonal Antibody detects endogenous levels of Cyclin B1

protein.

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Note For Research Use Only (RUO).

Protein Name G2/mitotic-specific cyclin-B1

Molecular Weight 60 kDa

Clonality Polyclonal

Conjugation Unconjugated

Isotype IgG

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Concentration 1 mg/ml

Storage Instruction Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links HGNC:1579OMIM:123836

Alternative Names G2/mitotic-specific cyclin-B1 antibody

CCNB antibody

Function Essential for the control of the cell cycle at the G2/M (mitosis) transition.

Cellular Localization Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center,

centrosome.

Post-translational Ubiquitinated by the SCF(NIPA) complex during interphase, leading to its **Modifications** destruction. Not ubiquitinated during G2/M phases. Phosphorylated by PLI

destruction. Not ubiquitinated during G2/M phases. Phosphorylated by PLK1 at Ser-133 on centrosomes during prophase: phosphorylation by PLK1 does not cause nuclear import. Phosphorylation at Ser-147 was also reported to be mediated by PLK1 but Ser-133 seems to be the primary phosphorylation site.

St John's Laboratory Ltd

F +44 (0)207 681 2580 **T** +44 (0)208 223 3081

W http://www.stjohnslabs.com/ E info@stjohnslabs.com