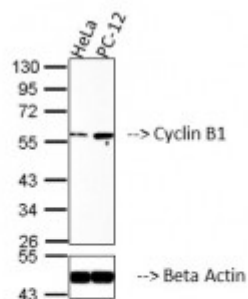


Anti-Cyclin B1 antibody



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:15790MIM: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 Modifications	Ubiquitinated by the SCF(NIPA) complex during interphase, leading to its 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.