

CDC2L1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50040**Specification**

CDC2L1 Antibody - Product Information

Application	WB
Primary Accession	P21127
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	93 KDa
Antigen Region	11-39

CDC2L1 Antibody - Additional Information**Gene ID** 984**Other Names**

Cyclin-dependent kinase 11B, Cell division cycle 2-like protein kinase 1, CLK-1, Cell division protein kinase 11B, Galactosyltransferase-associated protein kinase p58/GTA, PITSLRE serine/threonine-protein kinase CDC2L1, p58 CLK-1, CDK11B, CDC2L1, CDK11, PITSLREA, PK58

Dilution

WB~~ 1:1000

Format

Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions

-20°C

CDC2L1 Antibody - Protein Information**Name** CDK11B {ECO:0000303|PubMed:40858114, ECO:0000312|HGNC:HGNC:1729}**Function**

Cyclin-dependent protein kinase that acts as a regulator of transcription and pre-mRNA splicing (PubMed:12501247, PubMed:18216018, PubMed:32367068, PubMed:36104565). Acts as a key regulator of pre-mRNA splicing by mediating phosphorylation of SF3B1, enabling the association between SF3B1 and U5 and U6 snRNAs in the activated spliceosome, thereby promoting spliceosome assembly (PubMed:36104565, PubMed:38059508). Also acts as a regulator of transcription by phosphorylating

'Ser-2' of the CTD (C-terminal domain) of the large subunit of RNA polymerase II (RNAP II) POLR2A (PubMed:32367068, PubMed:40858114). Involved in replication-dependent transcription of histone genes: binds to histone genes and phosphorylates POLR2A at 'Ser-2' of the CTD to specifically control transcriptional elongation of histones and recruitment of 3'-end processing factors (PubMed:32367068). Part of a transcription checkpoint upstream of CDK9, which regulates promoter-proximal pausing by RNA polymerase II, a transcription halt following transcription initiation, but prior to elongation (PubMed:40858114). Probably regulates promoter-proximal pausing by mediating phosphorylation of POLR2A at 'Ser-2' of the CTD (PubMed:40858114).

Cellular Location

Nucleus. Chromosome Cytoplasm. Note=Localizes to transcription start site (TSS) proximal regions. [Isoform 7]: Nucleus. Chromosome, centromere

Tissue Location

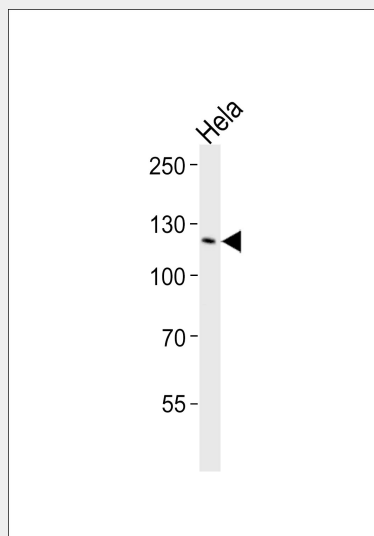
Expressed ubiquitously. Some evidence of isoform- specific tissue distribution.

CDC2L1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CDC2L1 Antibody - Images



Western blot analysis of lysates from HeLa cell line ,using CDC2L1 Antibody(C10442). C10442 was

diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug.

CDC2L1 Antibody - Background

Appears to play multiple roles in cell cycle progression, cytokinesis and apoptosis. The p110 isoforms have been suggested to be involved in pre-mRNA splicing, potentially by phosphorylating the splicing protein SFRS7. The p58 isoform may act as a negative regulator of normal cell cycle progression.

CDC2L1 Antibody - References

Bunnell B.A., et al. Proc. Natl. Acad. Sci. U.S.A. 87:7467-7471(1990).
Bunnell B.A., et al. Proc. Natl. Acad. Sci. U.S.A. 88:2612-2612(1991).
Eipers P.G., et al. Genomics 13:613-621(1992).
Xiang J., et al. J. Biol. Chem. 269:15786-15794(1994).
Gururajan R., et al. Genome Res. 8:929-939(1998).