

CDC2L6 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9082c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9BWU1
Other Accession	Q8BWD8
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB16914
Calculated MW	56802
Antigen Region	253-285

Additional Information

Gene ID	23097
Other Names	Cyclin-dependent kinase 19, CDC2-related protein kinase 6, Cell division cycle 2-like protein kinase 6, Cell division protein kinase 19, Cyclin-dependent kinase 11, Death-preventing kinase, CDK19, CDC2L6, CDK11, KIAA1028
Target/Specificity	This CDC2L6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 253-285 amino acids from the Central region of human CDC2L6.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CDC2L6 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CDK19
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Synonyms

CDC2L6, CDK11, KIAA1028

Function

Component of the Mediator complex, a transcriptional coactivator required for regulated expression of nearly all RNA polymerase II-dependent genes. Acts as a molecular bridge between gene-specific regulatory proteins and the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters through direct interactions with transcriptional regulators and serves as a scaffold for assembly of the pre-initiation complex with RNA polymerase II and general transcription factors. Contributes to phosphorylation of transcription factors and other substrates, including RNA polymerase II and the Notch1 intracellular domain (ICN1), thereby modulating gene expression programs (PubMed:[25344755](#), PubMed:[28855340](#), PubMed:[29440396](#)). Plays a role together with CDK8 in normal macrophage differentiation (By similarity).

Cellular Location

Cytoplasm. Cytoplasm, perinuclear region. Nucleus

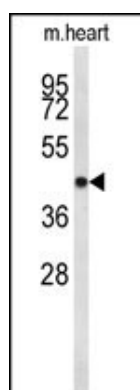
Background

CDC2L6 is one of the components of the Mediator coactivator complex. The Mediator complex is a multiprotein complex required for transcriptional activation by DNA binding transcription factors of genes transcribed by RNA polymerase II. The protein encoded by this gene is similar to cyclin-dependent kinase 8 which can also be a component of the Mediator complex.

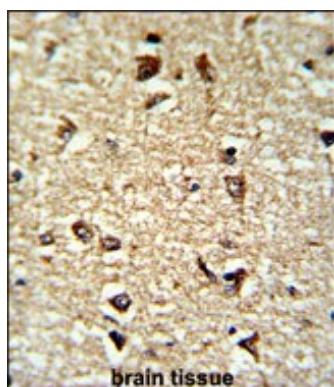
References

Malumbres,M., et.al. Nat. Cell Biol. 11 (11), 1275-1276 (2009)
Loyer,P., et.al., J. Biol. Chem. 283 (12), 7721-7732 (2008)

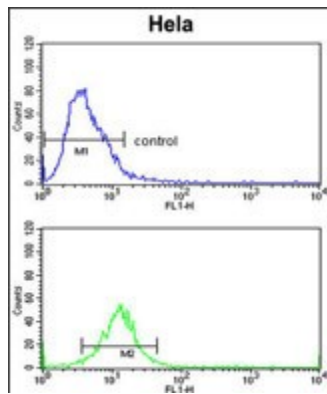
Images



Western blot analysis of CDC2L6 Antibody (Center) (Cat. #AP9082c) in mouse heart tissue lysates (35ug/lane). CDC2L6 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with CDC2L6 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



CDC2L6 Antibody (Center) (Cat. #AP9082c) flow cytometric analysis of Hela cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.