SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CDC5L antibody

Catalog Number: SL15497R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CDC5L
Immunogen:	KLH conjugated synthetic peptide derived from human CDC5L: 651-750/802
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, (predicted: Rat, Pig, Cow, Horse, Sheep)
Predicted MW.:	92kDa
Subcellular Location:	The nucleus
Background:	The protein encoded by this gene shares a significant similarity with Schizosaccharomyces pombe cdc5 gene product, which is a cell cycle regulator important for G2/M transition. This protein has been demonstrated to act as a positive regulator of cell cycle G2/M progression. It was also found to be an essential component of a non-snRNA spliceosome, which contains at least five additional protein factors and is required for the second catalytic step of pre-mRNA splicing. [provided by RefSeq, Jul 2008]. **Function:** DNA-binding protein involved in cell cycle control. May act as a transcription activator. Component of the PRP19-CDC5L complex that forms an integral part of the spliceosome and is required for activating pre-mRNA splicing. **Subunit:** Homodimer. Interacts with DAPK3 (By similarity). Binds DNA.

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	Binds to adeno-pre-mRNA in an ATP-stimulated manner. Belongs to the spliceosome complex. Part of a spliceosomal 'core' complex consisting of CDC5L, PLRG1, SPF27, CCAP1, CCAP3 and CCAP6. Interacts with PLRG1, Lodestar/TTF2, and NIPP1/PPP1R8. Identified in the spliceosome C complex. Component of the PRP19-CDC5L splicing complex composed of a core complex comprising a homotetramer of PRPF19, CDC5L, PLRG1 and BCAS2, and at least three less stably associated proteins CTNNBL1, CWC15 and HSPA8. Interacts (via its C-terminus) directly in the complex with PRPF19 and BCAS2. Interacts (via its C-terminus) directly with PRGL1 (via its WD40 repeat domain); the interaction is required for mRNA splicing but not for spliceosome assembly. Also interacts with CTNNBL1. **Subcellular Location:** Nucleus. Nucleus speckle. Cytoplasm. Note=May shuttle between cytoplasm and nucleus. **Tissue Specificity:** Ubiquitously expressed in both fetal and adult tissues. **Post-translational modifications:** Phosphorylated on serine and threonine residues. Phosphorylation on Thr-411 and Thr-438 is required for CDC5L-mediated mRNA splicing. Has no effect on subcellular location nor on homodimerization. Phosphorylated in vitro by CDK2. Phosphorylation enhances interaction with PPP1R8. DISEASE: Note=A chromosomal aberration involving CDC5L is found in multicystic renal dysplasia. Translocation t(6;19)(p21;q13.1) with USF2. **Similarity:** Belongs to the CEF1 family. Contains 2 HTH myb-type DNA-binding domains. **Database links:** **Entrez Gene:** 988 Human **Entrez Gene:** 71702 Mouse **Entrez Gene:** 85434 Rat Omim: 602868 Human **SwissProt:** Q99459 Human **SwissProt:** Q6A068 Mouse **SwissProt:** O08837 Rat **Unigene:** 485471 Human **Unigene:** 28270 Mouse **Unigene:** 54977 Rat

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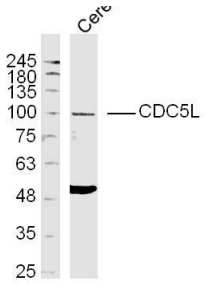
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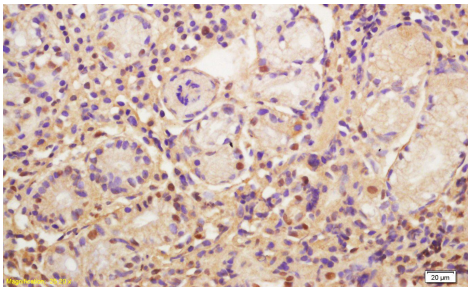
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[VALIDATION IMAGES]



Sample: Cerebellum (mouse) Lysate at 40 ug
Primary: Anti-CDC5L(SL15497R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 92 kD
Observed band size: 92 kD



Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37∩ for 20 min;
Incubation: Anti-CDC5L Polyclonal Antibody, Unconjugated(SL15497R) 1:200, overnight at 4∑C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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