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[Marker Primary Antibody]

Rabbit Anti-CDC5L/FITC Conjugated antibody

Catalog Number: SL15497R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-CDC5L/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human CDC5L
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	ICC=1:50-200 IF=1:50-200 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)
Background:	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. 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,

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	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 Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.