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CDC5L Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8949c

Specification

CDC5L Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q99459

CDC5L Antibody (Center) Blocking Peptide - Additional Information

Gene ID 988

Other Names
Cell division cycle 5-like protein, Cdc5-like protein, Pombe cdc5-related protein, CDC5L, KIAA0432, PCDC5RP

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8949c was selected from the Center region of human CDC5L. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CDC5L Antibody (Center) Blocking Peptide - Protein Information

Name CDC5L

Synonyms KIAA0432, PCDC5RP

Function
DNA-binding protein involved in cell cycle control. May act as a transcription activator. Plays a role in pre-mRNA splicing as core component of precatalytic, catalytic and postcatalytic spliceosomal complexes (PubMed:11991638, PubMed:20176811, PubMed:28076346, PubMed:28502770, PubMed:29301961, PubMed:29360106, PubMed:<a href="http://www.uniprot.org/citations/29361316"

target="_blank">29361316, PubMed:30705154, PubMed:30728453). Component of the PRP19-CDC5L complex that forms an integral part of the spliceosome and is required for activating pre-mRNA splicing. The PRP19-CDC5L complex may also play a role in the response to DNA damage (DDR) (PubMed:20176811). As a component of the minor spliceosome, involved in the splicing of U12- type introns in pre-mRNAs (Probable).

Cellular Location
Nucleus. Nucleus speckle. Cytoplasm Note=May shuttle between cytoplasm and nucleus

Tissue Location
Ubiquitously expressed in both fetal and adult tissues.

CDC5L Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

CDC5L Antibody (Center) Blocking Peptide - Images

CDC5L Antibody (Center) Blocking Peptide - Background

The protein is 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.

CDC5L Antibody (Center) Blocking Peptide - References

Grillari,J., et.al., J. Biol. Chem. 284 (42), 29193-29204 (2009)Zhang,N., et.al., EMBO Rep. 10 (9), 1029-1035 (2009)