**BACKGROUND**

Cdc5L (cell division cycle 5-like protein, pombe Cdc5-related protein) is a DNA-binding protein encoded by the human gene CDC5L. Cdc5L contains two HTH myb-type DNA-binding domains and may shuttle between cytoplasm and nucleus. It is involved in cell cycle control and may act as a transcription activator. CDC5L is a splicingosomal protein that is highly conserved across species. It is a member of a protein group that comprise the core of splicingosomal complexes and are essential for pre-mRNA splicing. Cdc5L is involved in the second catalytic step of pre-mRNA splicing, which involves cleavage at the 3’ splice site and the ligation of the exons. This process releases the intact intron lariat. A chromosomal aberration involving Cdc5L is found in multicystic renal dysplasia. This aberration is caused by a translocation (t6;19, p21;q13.1) with USF-2.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CDC5L (human) mapping to 6p21.1; Cdc5L (mouse) mapping to 17 B3.

**SOURCE**

Cdc5L (D-11) is a mouse monoclonal antibody raised against amino acids 503-802 mapping at the C-terminus of Cdc5L of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Cdc5L (D-11) is available conjugated to agarose (sc-398280 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398280 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398280 PE), fluorescein (sc-398280 FITC), Alexa Fluor® 488 (sc-398280 AF488), Alexa Fluor® 546 (sc-398280 AF546), Alexa Fluor® 594 (sc-398280 AF594) or Alexa Fluor® B47 (sc-398280 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-398280 AF680) or Alexa Fluor® 790 (sc-398280 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Cdc5L (D-11) is recommended for detection of Cdc5L of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Cdc5L siRNA (h): sc-62088, Cdc5L siRNA (m): sc-62089, Cdc5L shRNA Plasmid (h): sc-62088-HH, Cdc5L shRNA Plasmid (m): sc-62089-SH, Cdc5L shRNA (h) Lentiviral Particles: sc-62088-V and Cdc5L shRNA (m) Lentiviral Particles: sc-62089-V.

Molecular Weight of Cdc5L: 92 kDa.

Positive Controls: U-87 MG cell lysate: sc-2411, HeLa whole cell lysate: sc-2200 or Neuro-2A whole cell lysate: sc-364185.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.
2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

![Western Blot Analysis](image1)

![Immunofluorescence](image2)

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.