**BACKGROUND**

The eukaryotic cell division cycle consists of a number of gene-controlled sequences that involve cyclin-dependent kinases (Cdks) and cell division control (Cdc) proteins. Cdc2L5 (cell division cycle 2-like 5), also known as CHED or CDC2L, is a member of the cyclin-dependent serine/threonine protein kinase family that plays a role in cell differentiation and apoptosis. Expressed in liver, brain and muscle, Cdc2L5 is thought to control key events in the mitotic cycle and may be involved in the development of blood cells. Due to its role in mitosis, overexpression of Cdc2L5 is implicated in the development of neuroblastoma and glioblastoma tumors, suggesting a possible role for Cdc2L5 in carcinogenesis. Cdc2L5 contains one protein kinase domain and is expressed as two different isoforms produced by alternative splicing events.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CDK13 (human) mapping to 7p14.1; Cdk13 (mouse) mapping to 13 A2.

**SOURCE**

Cdc2L5 (ZZ08) is a mouse monoclonal antibody raised against recombinant Cdc2L5 of human origin.

**PRODUCT**

Each vial contains 100 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

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

**APPLICATIONS**

Cdc2L5 (ZZ08) is recommended for detection of Cdc2L5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).


Molecular Weight of Cdc2L5: 165 kDa.

Positive Controls: HeLa nuclear extract: sc-2120 or HeLa whole cell lysate: sc-2200.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

**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.