



Cdc2L5 (J-25): sc-130715

BACKGROUND

The eukaryotic cell division cycle consists of a number of gene-controlled sequences that involve cyclin-dependent kinases (Cdk) 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

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CHROMOSOMAL LOCATION

Genetic locus: CDC2L5 (human) mapping to 7p14.1; Cdc2L5 (mouse) mapping to 13 A2.

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 or our catalog for detailed protocols and support products.

SOURCE

Cdc2L5 (J-25) is a purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of CDC2L5 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Cdc2L5 (J-25) is recommended for detection of CDC2L5 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 Cdc2L5 siRNA (h): sc-72835, Cdc2L5 siRNA (m): sc-72836, Cdc2L5 shRNA Plasmid (h): sc-72835-SH, Cdc2L5 shRNA Plasmid (m): sc-72836-SH, Cdc2L5 shRNA (h) Lentiviral Particles: sc-72835-V and Cdc2L5 shRNA (m) Lentiviral Particles: sc-72836-V.

Molecular Weight of Cdc2L5: 165 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.