Cdc26 (C-4): sc-377144

**BACKGROUND**

Cell cycle progression is controlled at a point late in G1 designated Start. Passage through Start requires the activity of the cyclin-dependent protein kinase Cdc28. Transition from G1 to S phase requires the association of Cdc28 with members of the G1 cyclin family. Exit from mitosis and initiation of the next cell cycle requires a complex of proteins designated the anaphase-promoting complex (APC). This complex consists of two proteins, Cdc16 and Cdc27 (also referred to as Snb1), which are involved in limiting DNA replication to once per cell cycle. Cdc23, another component of the APC, is required for both entering and exiting anaphase, and is important for the proper separation of sister chromatids. The APC is thought to be stabilized by Cdc26 (also known as SCDC26). In addition to these APC proteins, Cdc5 is also required for completion of mitosis. In contrast, Cdc20 acts as a DNA-damage induced checkpoint, preventing mitosis when DNA damage has occurred.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CDC26 (human) mapping to 9q32; Cdc26 (mouse) mapping to 4 B3.

**SOURCE**

Cdc26 (C-4) is a mouse monoclonal antibody raised against amino acids 1-85 representing full length Cdc26 of human origin.

**PRODUCT**

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

Cdc26 (C-4) is available conjugated to agarose (sc-377144 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377144 HRP), 200 µg/ml, for WB, (HICP) and ELISA; to either phycocerythrin (sc-377144 PE), fluorescein (sc-377144 FITC), Alexa Fluor® 488 (sc-377144 AF488), Alexa Fluor® 546 (sc-377144 AF546), Alexa Fluor® 594 (sc-377144 AF594) or Alexa Fluor® 647 (sc-377144 AF647), 200 µg/ml, for WB, (RGB), IF, (HICP) and FCM; and to either Alexa Fluor® 680 (sc-377144 AF680) or Alexa Fluor® 790 (sc-377144 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Cdc26 (C-4) is recommended for detection of Cdc26 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), 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).


Molecular Weight of Cdc26: 10 kDa.

Positive Controls: Cdc26 (m): 293T Lysate: sc-125119.

**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). 3) Immunofluorescence: use m-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistolmount: sc-45086, or Organo/Limonene Mount: sc-45087.

**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.

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