



APC13 (P-14): sc-102308

BACKGROUND

Composed of more than eleven subunits, the anaphase-promoting complex (APC), also known as the cyclosome, acts in a cell-cycle dependent manner to promote the separation of sister chromatids during the transition between metaphase and anaphase in mitosis. The APC accomplishes this progression through the ubiquitination of mitotic cyclins and other regulatory proteins that are targeted for destruction during cell division. The APC is phosphorylated, and thus activated, by protein kinases Cdk1, cyclin B and polo-like kinase (Plk), and is under tight control by a number of regulatory factors, including p55 CDC, cadherin and MAD2. APC13 (anaphase-promoting complex subunit 13), also known as ANAPC13 or SWM1, is a 74 amino acid nuclear protein that functions as a component of the APC complex.

REFERENCES

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- Schwickart, M., et al. 2004. Swm1/APC13 is an evolutionarily conserved subunit of the anaphase-promoting complex stabilizing the association of Cdc16 and Cdc27. *Mol. Cell. Biol.* 24: 3562-3576.

CHROMOSOMAL LOCATION

Genetic locus: ANAPC13 (human) mapping to 3q22.1; Anapc13 (mouse) mapping to 9 F1.

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

APC13 (P-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of APC13 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-102308 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

APC13 (P-14) is recommended for detection of APC13 of mouse, rat 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other APC family members.

Suitable for use as control antibody for APC13 siRNA (h): sc-78311, APC13 siRNA (m): sc-141146, APC13 shRNA Plasmid (h): sc-78311-SH, APC13 shRNA Plasmid (m): sc-141146-SH, APC13 shRNA (h) Lentiviral Particles: sc-78311-V and APC13 shRNA (m) Lentiviral Particles: sc-141146-V.

Molecular Weight of APC13: 15 kDa.

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.