

# APC5 (C-20): sc-21417

## BACKGROUND

The anaphase-promoting complex (APC) is composed of more than ten subunits, including APC1, APC2, APC4, APC5, APC7, APC8, APC10 and APC11. The APC acts in a cell-cycle dependent manner to promote the separation of sister chromatids during the transition between metaphase and anaphase in mitosis. APC, or cyclosome, accomplishes this progression through the ubiquitination of mitotic cyclins and other regulatory proteins that are targeted for destruction during cell division. APC is phosphorylated, and thus activated, by protein kinases Cdk1/cyclin B and polo-like kinase (Plk). APC is under tight control by a number of regulatory factors, including CDC20, CDH1 and MAD2. Specifically, CDC20 and CDH1 directly bind to and activate the cyclin-ubiquitination activity of APCs. In contrast, MAD2 inhibits APC by forming a ternary complex with CDC20 and APC, thus preventing APC activation. APC5, also known as ANAPC5 or PDL-108, is a subunit of APC that mediates the interaction of APC with the transcription coactivators CBP and p300.

## CHROMOSOMAL LOCATION

Genetic locus: ANAPC5 (human) mapping to 12q24.31; Anapc5 (mouse) mapping to 5 F.

## SOURCE

APC5 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of APC5 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-21417 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

APC5 (C-20) is recommended for detection of APC5 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).

APC5 (C-20) is also recommended for detection of APC5 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for APC5 siRNA (h): sc-37528, APC5 siRNA (m): sc-37529, APC5 shRNA Plasmid (h): sc-37528-SH, APC5 shRNA Plasmid (m): sc-37529-SH, APC5 shRNA (h) Lentiviral Particles: sc-37528-V and APC5 shRNA (m) Lentiviral Particles: sc-37529-V.

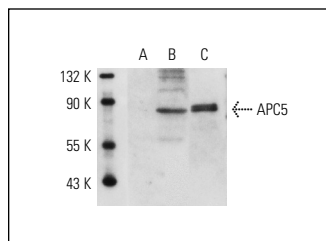
Molecular Weight of APC5: 85 kDa.

Positive Controls: Ramos cell lysate: sc-2216, Ramos + IL-4 cell lysate: sc-24762 or mouse brain extract: sc-2253.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



APC5 (C-20): sc-21417. Western blot analysis of APC5 expression in untreated (A) and IL-4 treated Ramos (B) whole cell lysates and mouse brain tissue extract (C).

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **APC5 (E-3): sc-25294**, our highly recommended monoclonal alternative to APC5 (C-20).