

APC

Reactivity: Human Rat

Tested applications: WB IHC ICC IP

Recommended Dilution: WB 1:500 - 1:1000 IHC 1:50 - 1:100 ICC 1:50 - 1:100 IP 1:25 - 1:50

Calculated MW: 312/160kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human APC

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

APC ; Deleted in polyposis 2.5; DP3; DP2; GS; DP2.5

Catalog #: A0021

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 324

Isotype: IgG

Swiss Prot: P25054

Purity: Affinity purification

For research use only.

Background:

The Adenomatous Polyposis Coli (APC) tumor suppressor gene is mutated in most familial and sporadic colorectal cancers and encodes a large cytoplasmic protein that is implicated in cell migration, cell adhesion, and proliferation (1). APC binds directly to microtubules and lack of APC leads to defective mitotic spindles and aneuploidy due to missegregation of chromosomes (2). APC is well characterized as a scaffolding protein, binds to -catenin, and is involved in the regulation of its intracellular concentration. In the absence of a Wnt signal, GSK-3 phosphorylates all three members of the APC--catenin-axin complex and this phosphorylation of -catenin creates a recognition site for ubiquitin, the signal for proteasome-mediated degradation. In the presence of a Wnt signal, dishevelled inactivates GSK-3 and -catenin coordinates gene transcription of proteins important for the control of cell cycle progression and proliferation, such as cyclin D1 and c-Myc (3).

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