

APC Rabbit monoclonal antibody

Catalog: MB66421

Host: Rabbit

Reactivity: Human

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. APC binds directly to microtubules and lack of APC leads to defective mitotic spindles and aneuploidy due to missegregation of chromosomes. APC is well characterized as a scaffolding protein, binds to β -catenin, and is involved in the regulation of its intracellular concentration. In the absence of a Wnt signal, GSK-3 β phosphorylates all three members of the APC- β -catenin-axin complex and this phosphorylation of β -catenin creates a recognition site for ubiquitin, the signal for proteasome-mediated degradation. In the presence of a Wnt signal, dishevelled inactivates GSK-3 β and β -catenin coordinates gene transcription of proteins important for the control of cell cycle progression and proliferation, such as cyclin D1 and c-Myc.

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 160 kDa

Swiss-Prot:

P25054

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IF/ICC (1/50 - 1/100), IP (1/10 - 1/50)

Storage&Stability:

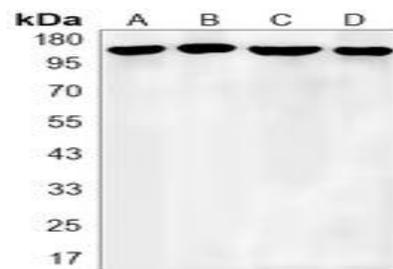
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

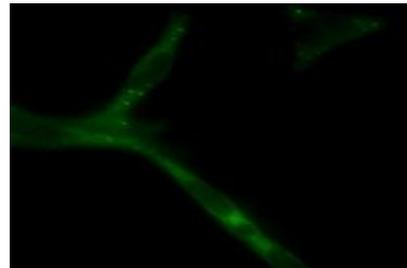
Specificity:

Recognizes endogenous levels of APC protein.

DATA:



Western blot analysis of APC expression in HeLa (A), A549 (B), HL60 (C), U2OS (D) whole cell lysates.



Immunofluorescent analysis of APC staining in Lncap cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

Note:

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

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