



## APC (2-289): sc-4414 WB

### BACKGROUND

The adenomatous polyposis syndromes, familial adenomatous polyposis (FAP) and Gardner's syndrome (GS), are characterized by numerous adenomatous polyps throughout the entire colon. These polyps invariably progress to colon cancer in addition to other extracolonic manifestations. The cloning of the APC gene revealed a ubiquitously expressed protein, 2843 amino acids in length, with a molecular weight of 300 kDa, which is frequently mutated in patients suffering from FAP and GS. APC has been found to be associated with structural components of intracellular junctions.  $\beta$ -catenin and  $\gamma$ -catenin (also called plakoglobin), are involved in the regulation of cellular adhesion. APC and E cadherin compete for binding to specific internal regions of both  $\beta$ - and  $\gamma$ -catenin. Interactions between cytoskeleton and the APC, E cadherin,  $\beta/\gamma$  catenin complex are mediated by  $\alpha$ -catenin.

### REFERENCES

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### SOURCE

APC (2-289) is expressed in *E. coli* as a 59 kDa tagged fusion protein corresponding to amino acids 2-289 of APC protein of human origin.

### PRODUCT

APC (2-289) is purified from bacterial lysates (>98%) by column chromatography; supplied as 10  $\mu$ g protein in 0.1 ml SDS-PAGE loading buffer.

### APPLICATIONS

APC (2-289) is suitable as a Western blotting control for sc-895, sc-7930 and sc-9998.

### STORAGE

Store at -20° C; stable for one year from the date of shipment.

### RESEARCH USE

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