APC Antibody		Cell Signaling	
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#2504	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane Danvers M	assachusetts 01923 USA	

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Rea WB, IP	ictivity: H	Sensitivity: Endogenous	MW (kDa): 160 truncated APC in SW480 cells. 310 full- length APC.	Source: Rabbit	UniProt ID: #P25054	Entrez-Gene Id: 324		
Product Usage Information	Appl	Application Dilution						
	West	tern Blotting			1:1000			
	Imm	unoprecipitation			1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensitivity	APC /	Antibody detects e	endogenous levels of	total APC protein				
Species predicted to react based on 100% sequence homology:	Mous	e, Rat, Monkey						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human APC. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	colore adhes mitoti scaffo the ab comp protea caten	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 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 (3).						
Background Reference	2. Kap	 Shih, I. M. et al. (2000) Cancer Res. 60, 1671-1676. Kaplan, K. B. et al. (2001) Nat Cell Biol. 3, 429-432. Fodde, R. (2002) Eur J Cancer. 38, 86-871. 						
Species Reactivity	Specie	es reactivity is dete	ermined by testing in	at least one appro	oved application (e.g., we	estern blot).		
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	WB: \	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity Key	X: Xer	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 						
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APC Antibody (#2504) Datasheet Without Images Cell Signaling Technology

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