ICCV151							
e at -20C	APC Antibody		Signaling H N O L O G Y*				
Store		Orders: 877-616-CELL (235 orders@cellsignal.co					
_ +		Support: 877-678-TECH (832	24)				
#2504		Web: info@cellsignal.co cellsignal.co					
#		3 Trask Lane Danvers Massachusetts 01923 US	SA				

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Applications: W, W-S, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 160 truncated APC in SW480 cells. 310 full-length APC.	Source/Isotype: Rabbit	UniProt ID: #P25054	Entrez-Gene Id 324		
Product Usage Information		Application Western Blotting Simple Western [™] Immunoprecipitation	n		Dilution 1:1000 1:10 - 1:50 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		APC Antibody detects endogenous levels of total APC protein.						
Species predicted to react based on 100% sequence homology		Mouse, 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		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 References		1. Shih, I. M. et al. (2000) <i>Cancer Res.</i> 60, 1671-1676. 2. Kaplan, K. B. et al. (2001) <i>Nat Cell Biol.</i> 3, 429-432. 3. Fodde, R. (2002) <i>Eur J Cancer.</i> 38, 86-871.						
Species Reactiv	ity	Species reactivity is d	letermined by testing i	n at least one approve	ed application (e.g.,	western blot).		
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key		W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation						
Cross-Reactivity Key		H: Human						
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