1/11/24, 11:30 AM **Revision 7**

e at -20C	β-Catenin (L54E2) Mouse mAb	C T	ell Signaling
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
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For Research Use Only. Not for Use in Diagnostic Procedures. Applications: Reactivity: Sensitivity: MW (kDa): Source

Applications: WB, IP, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 92	Source/Isotype: Mouse IgG1	UniProt ID: #P35222	Entrez-Gene Id: 1499		
Product Usage Information	Ар	plication			Dilu	ution		
mormation		estern Blotting			1:10			
		munoprecipitation			1:50			
		munofluorescence (2	nistry)		00 - 1:800		
	FIC	w Cytometry (Fixed	/Permeabilized)		1:50 - 1:100			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
	For	For a carrier free (BSA and azide free) version of this product see product #34396.						
Specificity / Sensitiv	vity β-C	β -Catenin (L54E2) Mouse mAb detects endogenous levels of total β -catenin protein.						
Species predicted to react based on 100% sequence homology:		Mouse, Rat, Pig						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human β -catenin.						
Background		β -catenin is a key downstream effector in the Wnt signaling pathway (1). It is implicated in two major biological processes in vertebrates: early embryonic development (2) and tumorigenesis (3). CK1 phosphorylates β -catenin at Ser45. This phosphorylation event primes β -catenin for subsequent phosphorylation by GSK-3 β (4-6). GSK-3 β destabilizes β -catenin by phosphorylating it at Ser33, Ser37, and Thr41 (7). Mutations at these sites result in the stabilization of β -catenin protein levels and have been found in many tumor cell lines (8).						
Background References		 Cadigan, K.M. and Nusse, R. (1997) <i>Genes Dev</i> 11, 3286-3305. Wodarz, A. and Nusse, R. (1998) <i>Annu Rev Cell Dev Biol</i> 14, 59-88. Polakis, P. (1999) <i>Curr Opin Genet Dev</i> 9, 15-21. Amit, S. et al. (2002) <i>Genes Dev</i> 16, 1066-76. Liu, C. et al. (2002) <i>Cell</i> 108, 837-47. Yanagawa, S. et al. (2002) <i>EMBO J</i> 21, 1733-42. Yost, C. et al. (1996) <i>Genes Dev</i> 10, 1443-54. Morin, P.J. et al. (1997) <i>Science</i> 275, 1787-90. 						
Species Reactivity	Spec	cies reactivity is dete	ermined by testing	g in at least one approve	ed 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: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivity Ke	X: X	 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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Limited Uses

β-Catenin (L54E2) Mouse mAb (#2677) Datasheet Without Images Cell Signaling Technology

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