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β -Catenin (L54E2) Mouse mAb (Alexa Fluor® 555 Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-IC	H	Endogenous	Mouse IgG1	#P35222	1499
Product Usage Information	Application Immunofluorescence (Immunocytochemistry)			Dilution 1:50	
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity/Sensitivity	β -Catenin (L54E2) Mouse mAb (Alexa Fluor® 555 Conjugate) 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 protein.				
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 555 fluorescent dye and tested in-house for immunofluorescence in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated β -Catenin (L54E2) Mouse mAb (IF Preferred) #2677.				
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	<ol style="list-style-type: none"> 1. Cadigan, K.M. and Nusse, R. (1997) <i>Genes Dev</i> 11, 3286-3305. 2. Wodarz, A. and Nusse, R. (1998) <i>Annu Rev Cell Dev Biol</i> 14, 59-88. 3. Polakis, P. (1999) <i>Curr Opin Genet Dev</i> 9, 15-21. 4. Amit, S. et al. (2002) <i>Genes Dev</i> 16, 1066-76. 5. Liu, C. et al. (2002) <i>Cell</i> 108, 837-47. 6. Yanagawa, S. et al. (2002) <i>EMBO J</i> 21, 1733-42. 7. Yost, C. et al. (1996) <i>Genes Dev</i> 10, 1443-54. 8. Morin, P.J. et al. (1997) <i>Science</i> 275, 1787-90. 				
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key	H: Human				
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