β-Catenin (L87A12) Mouse mAb





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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 92	Source/Isotype: Mouse IgG1	UniProt ID: #P35222	Entrez-Gene Id: 1499		
Product Usage Information	2	Application Western Blotting Immunoprecipitation	dium HEDES (nH 7 5	3) 150 mM NaCl 100 ug	Dilution 1:1000 1:50	ol and less than		
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.						
Specificity/Ser	nsitivity	β-Catenin (L87A12) Mouse mAb detects endogenous levels of total $β$ -catenin protein.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp56 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-3β (4-6). GSK-3β 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 R	eferences		se, R. (1998) Annu Irr Opin Genet Dev Genes Dev 16, 106 Cell 108, 837-47. 2002) EMBO J 21, 1 Genes Dev 10, 144	6-76. 733-42. 3-54.	38.			
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human M: Mouse F	R: Rat Mk: Monkey					
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