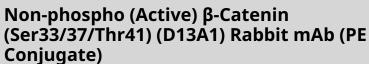
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Applications: FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P35222	Entrez-Gene Id: 1499		
Product Usage Information		Application Flow Cytometry (Fixed/Permeabilized)		Dilution 1:50			
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.					
Specificity/Sensit	ivity	Non-phospho (Active) β-Catenin (Ser33/37/Thr41) (D13A1) Rabbit mAb (PE Conjugate) recognizes endogenous β-catenin protein when residues Ser33, Ser37, and Thr41 are not phosphorylated. It does not detect β-catenin protein if tri-phosphorylated at Ser33/Ser37/Thr41.					
Species predicted based on 100% se homology		Chicken, Xenopus, Zebrafish, Bovine, Dog, Pig, Horse, Guinea Pig					
Source / Purificat	ion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser37 of human β -catenin protein.					
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Non-phospho (Active) β-Catenin (Ser33/37/Thr41) (D13A1) Rabbit mAb #8814.					
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).					
		Non-phospho (Active) β-Catenin (Ser33/37/Thr41) (D13A1) Rabbit mAb #8814 is designed to specifically recognize the stabilized form of β-catenin, i.e., protein that has not been phosphorylated by GSK-3, and thus is functionally active in cell-cell adhesion and/or the canonical Wnt signaling pathway.					
Background Refe	rences	 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	y	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Applications Key		FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity	۲ey	H: Human M: Mouse R: Rat Mk: Monkey					
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