e at -20C	LRP6 (C47E12) Rabbit mAb	T E			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 180, 210	Source/Isotype: Rabbit IgG	UniProt ID: #075581	Entrez-Gene Id: 4040	
Product Usage Information	We	plication estern Blotting nunoprecipitation			Dilution 1:1000 1:50		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		LRP6 (C47E12) Rabbit mAb detects endogenous levels of total LRP6 protein.					
Species predicted react based on 10 sequence homolo	0%						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to an extracellular region surrounding Met988 of human LRP6 protein.					
Background		LRP5 and LRP6 are single-pass transmembrane proteins belonging to the low-density lipoprotein receptor (LDLR)-related protein family. Unlike other members of the LDLR family, LRP5 and LRP6 have four EGF and three LDLR repeats in the extracellular domain, and proline-rich motifs in the cytoplasmic domain (1). They function as co-receptors for Wnt and are required for the canonical Wnt/ β -catenin signaling pathway (2,3). LRP5 and LRP6 are highly homologous and have redundant roles during development (4,5). The activity of LRP5 and LRP6 can be inhibited by the binding of some members of the Dickkopf (DKK) family of proteins (6,7). Upon stimulation with Wnt, LRP6 is phosphorylated at multiple sites including Thr1479, Ser1490, and Thr1493 by kinases such as GSK-3 and CK1 (8-10). Phosphorylated LRP6 recruits axin to the membrane and presumably activates β -catenin signaling (8-10).					
Background Refe	2. P 3. Ta 4. K 5. H 6. S 7. B 8. Ta 9. Ze	rown, S.D. et al. (199 inson, K.I. et al. (200 amai, K. et al. (2000) elly, O.G. et al. (2004) e, X. et al. (2004) <i>De</i> emënov, M.V. et al. (2004) amai, K. et al. (2004) eng, X. et al. (2005) <i>I</i> avidson, G. et al. (20	0) Nature 407, 53 Nature 407, 53 Development 131, 2001) Curr Biol Nat. Cell Biol. 3 Mol. Cell 13, 14 Nature 438, 873	0-535. 131, 2803-2815. 1663-1677. 11, 951-61. 3, 683-668. 19-156. -877.	48, 879-888.		
Species Reactivity	y Spec	ies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buff		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:	: Immunoprecipi	tation			
Cross-Reactivity H	X: X6	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

LRP6 (C47E12) Rabbit mAb (#3395) Datasheet Without Images Cell Signaling Technology

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