1/14/24, 11:33 AM Revision 5

Phospho-LRP6 Antibody 8922#	3-	Cell Signaling TECHNOLOGY* Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com crask Lane Danvers
For Research Use Only. Not for U Applications: Reactiv WB, IP H	-	UniProt ID: Entrez-Gene Id: #075581 4040
Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:200
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM Na 20°C. Do not aliquot the antibody.	Cl, 100 $\mu\text{g/ml}$ BSA and 50% glycerol. Store at –
Specificity / Sensitivity	Phospho-LRP6 (Ser1490) Antibody detects endogenous serine 1490. It is expected, although not yet confirmed, to when phosphorylated at serine 1503 (corresponding to se	also detect endogenous levels of LRP5 protein
Species predicted to react based on 100% sequence homology:	Mouse	
Source / Purification	Polyclonal antibodies are produced by immunizing anima to residues surrounding Ser1490 of human LRP6. Antibo chromatography.	
Background	LRP5 and LRP6 are single-pass transmembrane proteins (LDLR)-related protein family. Unlike other members of th and three LDLR repeats in the extracellular domain, and They function as co-receptors for Wnt and are required for (2,3). LRP5 and LRP6 are highly homologous and have r activity of LRP5 and LRP6 can be inhibited by the binding of proteins (6,7). Upon stimulation with Wnt, LRP6 is pho Ser1490, and Thr1493 by kinases such as GSK-3 and CI the membrane and presumably activates β-catenin signal	e LDLR family, LRP5 and LRP6 have four EGF proline-rich motifs in the cytoplasmic domain (1). or the canonical Wnt/β-catenin signaling pathway edundant roles during development (4,5). The g of some members of the Dickkopf (DKK) family sphorylated at multiple sites including Thr1479, <1 (8-10). Phosphorylated LRP6 recruits axin to
Background References	 Brown, S.D. et al. (1998) <i>Biochem. Biophys. Res. Com</i> Pinson, K.I. et al. (2000) <i>Nature</i> 407, 535-538. Tamai, K. et al. (2000) <i>Nature</i> 407, 530-535. Kelly, O.G. et al. (2004) <i>Development</i> 131, 2803-2815. He, X. et al. (2004) <i>Development</i> 131, 1663-1677. Semënov, M.V. et al. (2001) <i>Curr Biol</i> 11, 951-61. Bafico, A. et al. (2001) <i>Nat. Cell Biol.</i> 3, 683-668. Tamai, K. et al. (2004) <i>Mol. Cell</i> 13, 149-156. Zeng, X. et al. (2005) <i>Nature</i> 438, 873-877. Davidson, G. et al. (2005) <i>Nature</i> 438, 867-872. 	
Species Reactivity	Species reactivity is determined by testing in at least one	approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking	
Applications Key Cross-Reactivity Key	WB: Western Blotting IP: Immunoprecipitation	

1/14/24, 11:33 AM	 Phospho-LRP6 (Ser1490) Antibody (#2568) Datasheet Without Images Cell Signaling Technology 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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