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DKK1 (D5V6L) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 28-40	Source/Isotype: Rabbit IgG	UniProt ID: #O94907	Entrez-Gene Id: 22943
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence		nistry)		Dilution 1:1000 1:100 1:800
Storage Supplied in 10 mM sodium HEPES (pH 7.5 0.02% sodium azide. Store at -20°C. Do n					/ml BSA, 50% glyce	rol and less than
Specificity/Sensitivity		DKK1 (D5V6L) Rabbit mAb recognizes endogenous levels of total DKK1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human DKK1 protein.				
Background		Dickkopf (DKK) family proteins consist of four members (DKK1, DKK2, DKK3, and DKK4) that function as secreted Wnt antagonists by inhibiting Wnt coreceptors LRP5 and LRP6 (1,2). DKKs contain two cysteine-rich domains in which the positions of 10 cysteine residues are well conserved (3). Their expression is both temporally and spatially regulated during animal development (4). DKKs also bind with high affinity to transmembrane proteins Kremen1 and 2, which themselves also modulate Wnt signaling (5,6). DKK1 was initially identified as an inducer of head formation in Xenopus embryos (7) and plays an important role in the regulation of bone mass (8-10). Research studies indicate that increased levels of DKK1 are found in the majority of lung cancers, esophageal squamous cell carcinomas, and hormone-resistant breast cancers (11,12), while DKK1 expression is decreased in malignant melanoma and				
Background References		colorectal cancers (13,14). 1. Mao, B. et al. (2001) <i>Nature</i> 411, 321-5. 2. Niehrs, C. (2006) <i>Oncogene</i> 25, 7469-81. 3. Krupnik, V.E. et al. (1999) <i>Gene</i> 238, 301-13. 4. Monaghan, A.P. et al. (1999) <i>Mech Dev</i> 87, 45-56. 5. Mao, B. et al. (2002) <i>Nature</i> 417, 664-7. 6. Davidson, G. et al. (2002) <i>Development</i> 129, 5587-96. 7. Glinka, A. et al. (1998) <i>Nature</i> 391, 357-62. 8. Baron, R. and Rawadi, G. (2007) <i>Curr Osteoporos Rep</i> 5, 73-80. 9. MacDonald, B.T. et al. (2007) <i>Bone</i> 41, 331-9. 10. Diarra, D. et al. (2007) <i>Nat Med</i> 13, 156-63. 11. Forget, M.A. et al. (2007) <i>Br J Cancer</i> 96, 646-53. 12. Yamabuki, T. et al. (2006) <i>Oncogene</i> 25, 5027-36. 14. Aguilera, O. et al. (2006) <i>Oncogene</i> 25, 4116-21.				
Species Reactiv	rity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X				

Western Blot Buffer

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

W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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