

DKK1 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: W | Reactivity: H | Sensitivity: Transfected Only | MW (kDa): 28-40 | Source/Isotype: Rabbit | UniProt ID: #O94907 | Entrez-Gene Id: 22943 |
|------------------------------|------------------|---|---------------------------|-------------------------------------|-------------------------------|--------------------------|
| Product Usage Information | | Application Western Blotting | | | Dilution 1:1000 | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody. | | | | |
| Specificity/Sensitivity | | DKK1 Antibody detects transfected levels of DKK1 protein. This antibody does not cross-react with DKK2. | | | | |
| Source / Purification | | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln75 of human DKK1. Antibodies are purified by peptide affinity chromatography. | | | | |
| 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). Increased levels of DKK1 are found in the majority of lung cancers, esophageal squamous cell carcinomas, and hormone-resistant breast cancers (11,12), | | | | |
| Background References | | while DKK1 expression is decreased in malignant melanoma and 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>Cancer</i> 96, 646-53. 12. Yamabuki, T. et al. (2007) <i>Cancer Res</i> 67, 2517-25. 13. Kuphal, S. 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 | termined by testin | g in at least one approve | ed application (e.g., | western blot). |
| Wastawa Blat B | ** | MADODTANIT 5 | and blake to subject | and the second second second second | | 50/ / BSA 41/ |

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

Cross-Reactivity Key H: Human

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