

**DKK2 (G44) Antibody**

**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:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Transfected Only	28, 32	Rabbit	#Q9UBU2	27123

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

DKK2 (G44) Antibody detects transfected levels of human DKK2 protein. This antibody does not cross-react with DKK1.

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly44 of human DKK2. 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).

DKK2 plays a role in osteoblast terminal differentiation and formation of mineralized matrix and is required for differentiation of non-keratinizing stratified epithelium from the corneal epithelial progenitors (7,8).

**Background References**

1. Mao, B. et al. (2001) *Nature* 411, 321-5.
2. Niehrs, C. (2006) *Oncogene* 25, 7469-81.
3. Krupnik, V.E. et al. (1999) *Gene* 238, 301-13.
4. Monaghan, A.P. et al. (1999) *Mech Dev* 87, 45-56.
5. Mao, B. et al. (2002) *Nature* 417, 664-7.
6. Davidson, G. et al. (2002) *Development* 129, 5587-96.
7. Li, X. et al. (2005) *Nat Genet* 37, 945-52.
8. Mukhopadhyay, M. et al. (2006) *Development* 133, 2149-54.

**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 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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