

**Goat Anti-DKK2 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1324a****Specification**

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**Goat Anti-DKK2 Antibody - Product Information**

|                   |   |
|-------------------|---|
| Application       | WB, E   |
| Primary Accession | <a href="#">O9UBU2</a>                            |
| Other Accession   | <a href="#">NP_055236</a> , <a href="#">27123</a> |
| Reactivity        | Human   |
| Predicted         | Mouse, Rat, Dog                                   |
| Host              | Goat  |
| Clonality         | Polyclonal  |
| Concentration     | 100ug/200ul                                       |
| Isotype           | IgG   |
| Calculated MW     | 28447   |

**Goat Anti-DKK2 Antibody - Additional Information****Gene ID** 27123**Other Names**

Dickkopf-related protein 2, Dickkopf-2, Dkk-2, hDkk-2, DKK2

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-DKK2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-DKK2 Antibody - Protein Information****Name** DKK2**Function**

Antagonizes canonical Wnt signaling by inhibiting LRP5/6 interaction with Wnt and by forming a ternary complex with the transmembrane protein KREMEN that promotes internalization of LRP5/6.

DKKs play an important role in vertebrate development, where they locally inhibit Wnt regulated processes such as antero-posterior axial patterning, limb development, somitogenesis and eye formation. In the adult, Dkks are implicated in bone formation and bone disease, cancer and Alzheimer disease (By similarity).

**Cellular Location**

Secreted.

**Tissue Location**

Expressed in heart, brain, skeletal muscle and lung

**Goat Anti-DKK2 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-DKK2 Antibody - Images**

AF1324a (2 µg/ml) staining of Human Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**Goat Anti-DKK2 Antibody - Background**

This gene encodes a protein that is a member of the dickkopf family. The secreted protein contains two cysteine rich regions and is involved in embryonic development through its interactions with the Wnt signaling pathway. It can act as either an agonist or antagonist of Wnt/beta-catenin signaling, depending on the cellular context and the presence of the co-factor kremen 2. Activity of this protein is also modulated by binding to the Wnt co-receptor LDL-receptor related protein 6 (LRP6).

**Goat Anti-DKK2 Antibody - References**

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.

A systematic gene-based screen of chr4q22-q32 identifies association of a novel susceptibility gene, DKK2, with the quantitative trait of alcohol dependence symptom counts. Kalsi G, et al. Hum Mol Genet, 2010 Jun 15. PMID 20332099.

The roles of Wnt signaling modulators Dickkopf-1 (Dkk1) and Dickkopf-2 (Dkk2) and cell maturation state in osteogenesis on microstructured titanium surfaces. Olivares-Navarrete R, et al. Biomaterials, 2010 Mar. PMID 20004015.

Wnt antagonist gene DKK2 is epigenetically silenced and inhibits renal cancer progression through apoptotic and cell cycle pathways. Hirata H, et al. Clin Cancer Res, 2009 Sep 15. PMID 19755393.

DICKKOPF-4 and -2 genes are upregulated in human colorectal cancer. Matsui A, et al. Cancer Sci, 2009 Oct. PMID 19659606.