

**DKK3 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1363a**

**Specification**

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**DKK3 Antibody - Product Information**

Application	<b>WB, FC, IHC</b>
Primary Accession	<a href="#">O9UBP4</a>
Reactivity	<b>Human, Monkey</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>38kDa KDa</b>

**Description**

Dkk-3 (Dickkopf-3) is a member of the dickkopf family. It is a 350 amino acid secreted glycoprotein that is composed of an N-terminal signal peptide and two conserved cysteine-rich domains, which are separated by a 12 amino acid linker region. This secreted protein is involved in embryonic development through its interactions with the Wnt signaling pathway. The expression of this gene is decreased in a variety of cancer cell lines and it may function as a tumor suppressor gene.

**Immunogen**

Purified recombinant fragment of human DKK3 expressed in E. Coli.

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**DKK3 Antibody - Additional Information**

**Gene ID** 27122

**Other Names**

Dickkopf-related protein 3, Dickkopf-3, Dkk-3, hDkk-3, DKK3, REIC

**Dilution**

WB~~1/500 - 1/2000

FC~~1/200 - 1/400

IHC~~1:200~~1000

**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**

DKK3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**DKK3 Antibody - Protein Information**

**Name** DKK3

**Synonyms** REIC

**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**

Highest expression in heart, brain, and spinal cord. {ECO:0000269|PubMed:10570958, ECO:0000269|Ref.4}

**DKK3 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](#)

**DKK3 Antibody - Images**

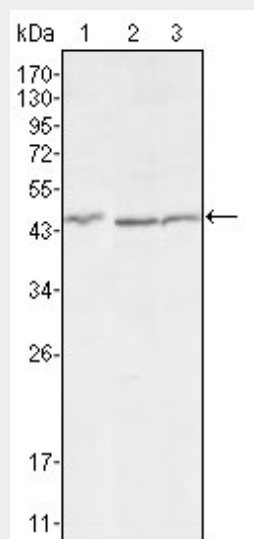


Figure 1: Western blot analysis using DKK3 mouse mAb against HEK293 (1), MCF-7 (2) and HL7702 (3) cell lysate.

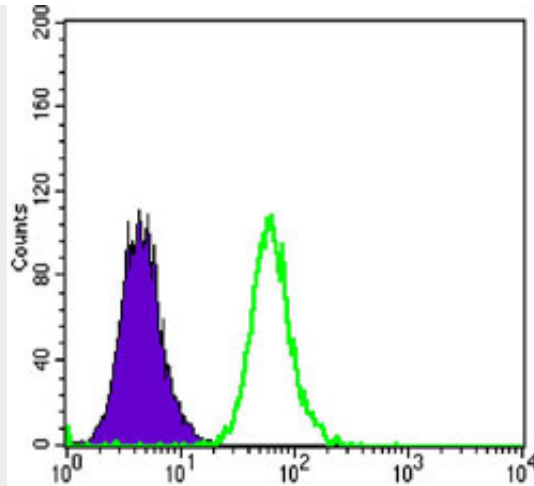


Figure 2: Flow cytometric analysis of MCF-7 cells using anti-DKK3 mAb (green) and negative control (purple).

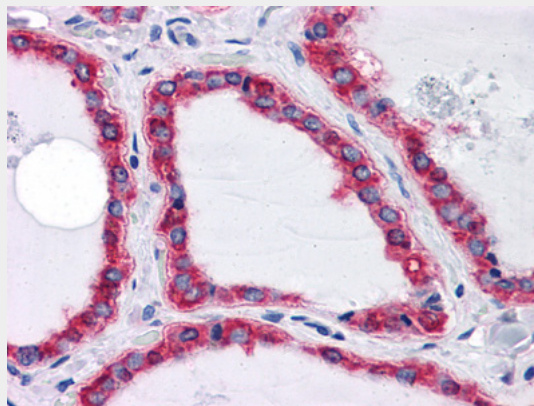


Figure 2: Immunohistochemical analysis of paraffin-embedded human Thyroid tissues using HSPA5 mouse mAb

### **DKK3 Antibody - References**

1. Virchows Arch. 2009 Jun;454(6):639-46.
2. Gene. 2002 Jan 9;282(1-2):151-8.
3. J Urol. 2004 Mar;171(3):1314-8.