

# **DKK3 Antibody**

Purified Mouse Monoclonal Antibody Catalog # AO1363a

#### **Product Information**

**Application** WB, FC, E **Primary Accession** Q9UBP4

Reactivity Human, Monkey

**Host** Mouse **Clonality** Monoclonal

Clone Names 4G7 Isotype IgG1 Calculated MW 38390

**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-richdomains, 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.

#### **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 E~~N/A

**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.

### **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}

#### 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.

## **Images**

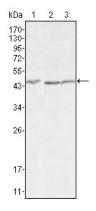


Figure 1: Western blot analysis using DKK3 mouse mAb against HEK293 (1), MCF-7 (2) and HL7702 (3) cell lysate.

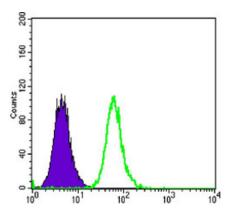


Figure 2: Flow cytometric analysis of MCF-7 cells using anti-DKK3 mAb (green) and negative control (purple).

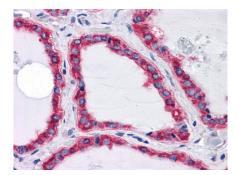


Figure 2: Immunohistochemical analysis of paraffin-embedded human Thyroid tissues using HSPA5 mouse mAb

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.