

DKK3 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1363a

Specification

DKK3 Antibody - Product Information

Application	WB, FC, IHC
Primary Accession	O9UBP4
Reactivity	Human, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	38kDa KDa

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

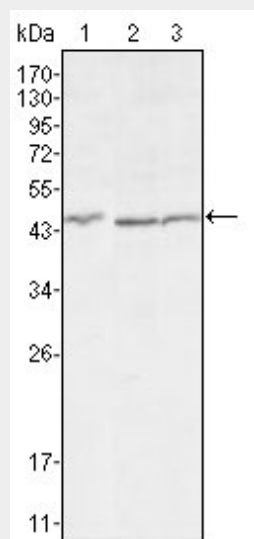


Figure 1: Western blot analysis using DKK3 mouse mAb against HEK293 (1), MCF-7 (2) and HL7702 (3) cell lysate.

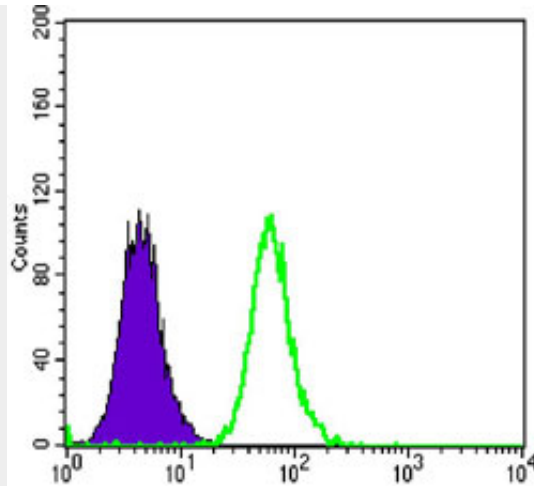


Figure 2: Flow cytometric analysis of MCF-7 cells using anti-DKK3 mAb (green) and negative control (purple).

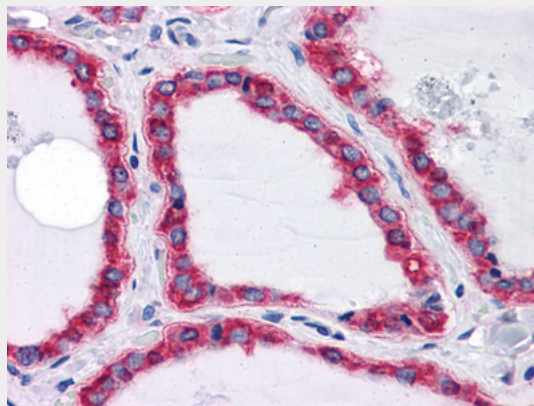


Figure 2: Immunohistochemical analysis of paraffin-embedded human Thyroid tissues using HSPA5 mouse mAb

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.