10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

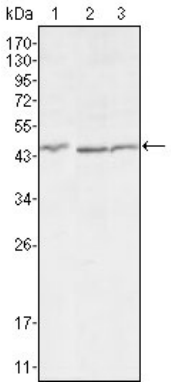

Figure 1: Western blot analysis using DKK3 mouse mAb against HEK293 (1), MCF-7 (2) and HL7702 (3) cell lysate.

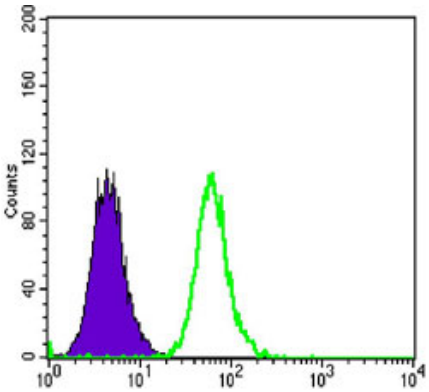

Figure 2: Flow cytometric analysis of MCF-7 cells using anti-DKK3 mAb (green) and negative control (purple).

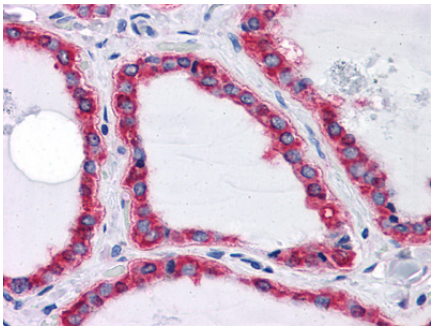

Figure 2: Immunohistochemical analysis of paraffin-embedded human Thyroid tissues using HSPA5 mouse mAb