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DKK3 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1783a

Product Information

Application	WB, IHC, FC, E
Primary Accession	Q9UBP4
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	8A5C6
Isotype	IgG1
Calculated MW	38390
Description	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. The expression of this gene is decreased in a variety of cancer cell lines and it may function as a tumor suppressor gene. Alternative splicing results in multiple transcript variants encoding the same protein.
Immunogen	Purified recombinant fragment of human DKK3 (AA: 91-350) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% 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 IHC~~1/200 - 1/1000 FC~~1:10~50 E~~1/10000
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.Exp Dermatol. 2011 Mar;20(3):273-7. 2.Thromb Haemost. 2011 Jan;105(1):72-80.

Images

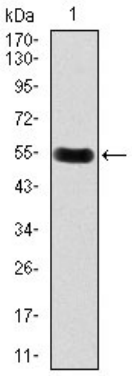

Figure 1: Western blot analysis using DKK3 mAb against human DKK3 recombinant protein. (Expected MW is 54.4 kDa)

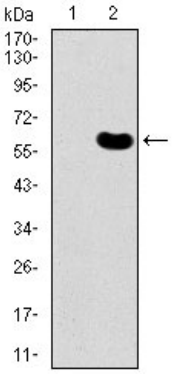

Figure 2: Western blot analysis using DKK3 mAb against HEK293 (1) and DKK3 (AA: 91-350)-hIgGFc transfected HEK293 (2) cell lysate.

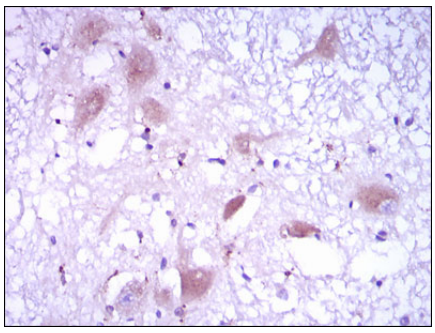

Figure 4: Immunohistochemical analysis of paraffin-embedded brain tissues using DKK3 mouse mAb with DAB staining.