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

DKK3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5561

Product Information

Application	WB
Primary Accession	Q9UBP4
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38390
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	27122
Antigen Region	15-45
Other Names	Dickkopf-related protein 3, Dickkopf-3, Dkk-3, hDkk-3, DKK3, REIC
Dilution	WB~~1:1000
Target/Specificity	This DKK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 15-45 amino acids from the N-terminal region of human DKK3.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DKK3 Antibody (N-term) 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}

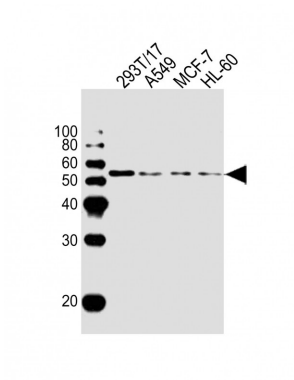
Background

DKK3, like DKK1, DKK2, and DKK4, possesses an N-terminal signal peptide and 2 conserved cysteine-rich domains, which are separated by a linker region and contain 10 cysteine residues each. The second cysteine region has a putative lipid-binding function that may facilitate WNT/DKK interactions at the plasma membrane. The linker region contains 50 to 55 amino acids in DKK1, DKK2, and DKK4, whereas in DKK3 it contains only 12 amino acids. All DKKs have several potential sites for cleavage by furin-type proteases. Northern blot analysis revealed wide expression of the DKK3 transcript, with highest expression in heart, brain, and spinal cord. In situ hybridization reveals highest expression in mouse brain, eye, and heart.

References

Clark, H.F., et al., Genome Res. 13(10):2265-2270 (2003).
Tsuji, T., et al., Biochem. Biophys. Res. Commun. 268(1):20-24 (2000).
Krupnik, V.E., et al., Gene 238(2):301-313 (1999).
Kobayashi, K., et al., Gene 282 (1-2), 151-158 (2002).

Images



All lanes : Anti-DKK3 Antibody (A30) at 1:1000 dilution Lane 1: 293T/17 whole cell lysate Lane 2: A549 whole cell lysate Lane 3: MCF-7 whole cell lysate Lane 4: HL-60 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 38 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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