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DKK2 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP1522a

Specification

DKK2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9UBU2

DKK2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 27123

Other Names
Dickkopf-related protein 2, Dickkopf-2, Dkk-2, hDkk-2, DKK2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1522a was selected from the N-term region of human DKK2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DKK2 Antibody (N-term) Blocking Peptide - Protein Information

Name DKK2

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
Expressed in heart, brain, skeletal muscle and lung

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DKK2 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

DKK2 Antibody (N-term) Blocking Peptide - Images

DKK2 Antibody (N-term) Blocking Peptide - Background

The 259-amino acid DKK2 protein, like DKK1, DKK3, and DKK4, possesses an N-terminal signal peptide and 2 conserved cysteine-rich domains, which are separated by a linker region and contain 10 cys residues each. The second cys 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 expression of 4.0- and 4.5-kb DKK2 transcripts in heart, brain, skeletal muscle, and lung. Western blot analysis showed that DKK2 is secreted as a 15- to 17-kD protein. Functional analysis determined that DKK2 does not block Xenopus Wnt8 induction of a secondary axis in frog embryos.

DKK2 Antibody (N-term) Blocking Peptide - References

Clark, H.F., et al., Genome Res. 13(10):2265-2270 (2003).Brott, B.K., et al., Mol. Cell. Biol. 22(17):6100-6110 (2002).Krupnik, V.E., et al., Gene 238(2):301-313 (1999).