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DKK3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5375

Specification

DKK3 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9UBP4
Other Accession	NP_037385
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**H=38;M=38 KDa**
Isotype	**Rabbit IgG**
Antigen Source	**HUMAN**

DKK3 Antibody (N-term) - 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.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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.

DKK3 Antibody (N-term) - 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.

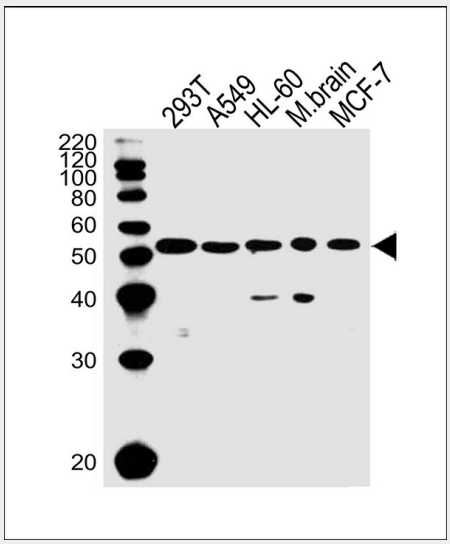
Tissue Location
Highest expression in heart, brain, and spinal cord. {ECO:0000269|PubMed:10570958, ECO:0000269|Ref.4}

DKK3 Antibody (N-term) - Protocols

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

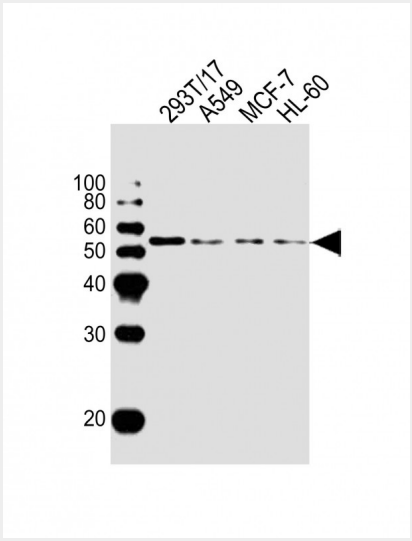
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DKK3 Antibody (N-term) - Images



All lanes : Anti-DKK3 Antibody A30 at 1:1000 dilution Lane 1: 293T whole cell lysates Lane 2: A549 whole cell lysates Lane 3: HL-60 whole cell lysates Lane 4: mouse brain lysates Lane 5: MCF-7 whole cell lysates 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.

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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.

DKK3 Antibody (N-term) - 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.

DKK3 Antibody (N-term) - 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).