

# DKK4 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP1524b

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">Q9UBT3</a>
<b>Other Accession</b>	<a href="#">NP_055235</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Calculated MW</b>	24876
<b>Antigen Region</b>	188-217

## Additional Information

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<b>Gene ID</b>	27121
<b>Other Names</b>	Dickkopf-related protein 4, Dickkopf-4, Dkk-4, hDkk-4, Dickkopf-related protein 4 short form, DKK4
<b>Target/Specificity</b>	This DKK4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 188-217 amino acids from the C-terminal region of human DKK4.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	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.
<b>Precautions</b>	DKK4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	DKK4
<b>Function</b>	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 cerebellum, T-cells, esophagus and lung

## Background

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DKK4, like DKK1, DKK2, and DKK3, 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 detected no expression of DKK4, but RT-PCR analysis detected DKK4 expression in cerebellum, T-cell, esophagus, and lung cDNA libraries. DKK4 blocks *Xenopus* Wnt8, Wnt3a, and Wnt2b, but not Dsh or Fz8, induction of a secondary axis in frog embryos, indicating that DKKs antagonize WNT function upstream of WNT receptors.

## References

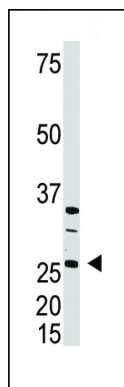
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Krupnik, V.E., et al., *Gene* 238(2):301-313 (1999).

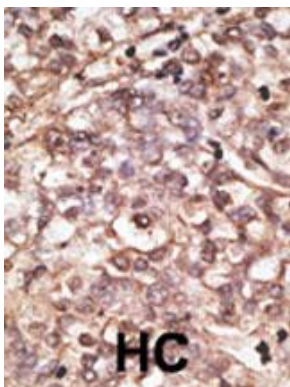
Yoshida, S., et al., *Cytogenet. Cell Genet.* 94 (1-2), 88-89 (2001).

## Images

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The anti-DKK4 C-term Pab (Cat. #AP1524b) is used in Western blot to detect DKK4 in A375 cell lysate.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

## Citations

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- [Expression pattern of REIC/Dkk-3 in various cell types and the implications of the soluble form in prostatic acinar development.](#)

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