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DKK4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11649b

Product Information

Application	WB, E
Primary Accession	Q9UBT3
Other Accession	Q8VEJ3, NP_055235.1
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31395
Calculated MW	24876
Antigen Region	162-189

Additional Information

Gene ID	27121
Other Names	Dickkopf-related protein 4, Dickkopf-4, Dkk-4, hDkk-4, Dickkopf-related protein 4 short form, DKK4
Target/Specificity	This DKK4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 162-189 amino acids from the C-terminal region of human DKK4.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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	DKK4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DKK4
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 cerebellum, T-cells, esophagus and lung

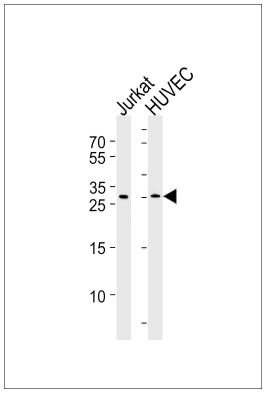
Background

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. Activity of this protein is modulated by binding to the Wnt co-receptor and the co-factor kremen 2.

References

Hosgood, H.D. III, et al. Occup Environ Med 66(12):848-853(2009)
Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009)
Hirata, H., et al. Cancer 115(19):4488-4503(2009)
Matsui, A., et al. Cancer Sci. 100(10):1923-1930(2009)
Baehs, S., et al. Cancer Lett. 276(2):152-159(2009)

Images



Western blot analysis of lysates from Jurkat, HUVEC cell line (from left to right), using DKK4 Antibody (C-term)(Cat. #AP11649b). AP11649b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

Citations

- Colorectal cancer cells secreting DKK4 transform fibroblasts to promote tumour metastasis