

DKK1 Rabbit pAb

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Catalog # AP52055

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O94907
Reactivity	Dog
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28672
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DKK1
Epitope Specificity	201-266/266
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein that is a member of the dickkopf family. It is a secreted protein with two cysteine rich regions and is involved in embryonic development through its inhibition of the WNT signaling pathway. Elevated levels of DKK1 in bone marrow plasma and peripheral blood is associated with the presence of osteolytic bone lesions in patients with multiple myeloma. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	22943
Other Names	Dickkopf-related protein 1, Dickkopf-1, Dkk-1, hDkk-1, SK, DKK1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	DKK1
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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 (PubMed: 22000856). 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 (PubMed: 17143291). Inhibits the pro-apoptotic function of KREMEN1 in a Wnt-independent manner, and has anti-apoptotic activity (By similarity).
Cellular Location	Secreted.
Tissue Location	Placenta.

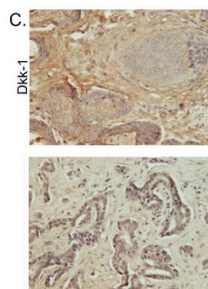
Background

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References

Fedi P.,et al.J. Biol. Chem. 274:19465-19472(1999).
Krupnik V.E.,et al.Gene 238:301-313(1999).
Tate G.,et al.Submitted (NOV-1998) to the EMBL/GenBank/DDBJ databases.
Roessler E.,et al.Cytogenet. Cell Genet. 89:220-224(2000).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).

Images



submitted by Dr. Magdalena Krol. Formalin-fixed and paraffin embedded canine mammary tumor labeled with Rabbit Anti-DKK1 Polyclonal Antibody, Unconjugated (AP52055) at 1:200 followed by conjugation to the secondary antibody and DAB staining

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