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DKK1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5504

Specification

DKK1 Antibody - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	O94907
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**H=29;M=29 KDa**
Isotype	**Rabbit IgG**
Antigen Source	**HUMAN**

DKK1 Antibody - Additional Information

Gene ID 22943

Antigen Region
Recombinant protein of full sequence

Other Names
Dickkopf-related protein 1, Dickkopf-1, Dkk-1, hDkk-1, SK, DKK1

Dilution
WB~~1:2000
IHC-P~~1:25
FC~~1:25

Target/Specificity
This DKK1 antibody is generated from a rabbit immunized with a recombinant protein of human DKK1.

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
DKK1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

DKK1 Antibody - Protein Information

Name DKK1

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.

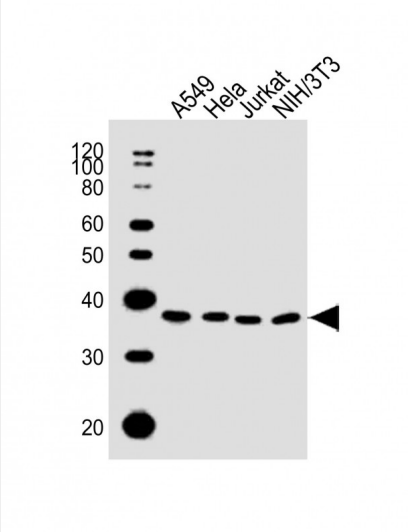
Tissue Location
Placenta.

DKK1 Antibody - Protocols

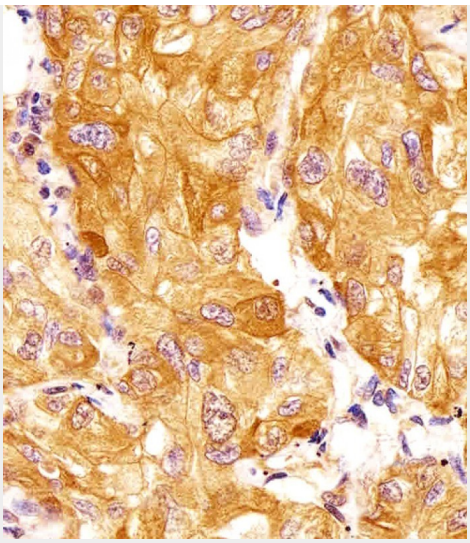
Provided below are standard protocols that you may find useful for product applications.

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

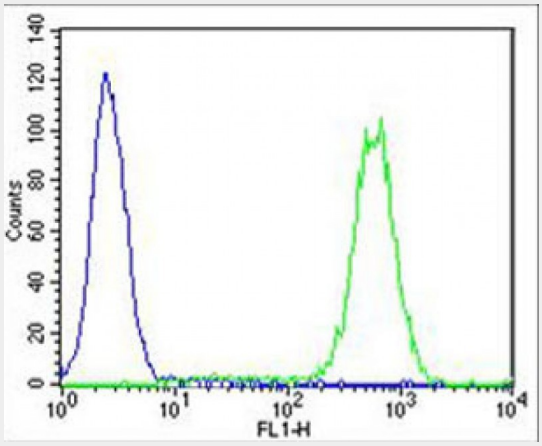
DKK1 Antibody - Images



All lanes : Anti-DKK1 Antibody at 1:2000 dilution Lane 1: A549 whole cell lysates Lane 2: Hela whole cell lysates Lane 3: Jurkat whole cell lysates Lane 4: NIH/3T3 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 : 29 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AW5504 staining DKK1 in Human lung adenocarcinoma tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing U-2 OS cells stained with AW5504 (green line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AW5504, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) (1583138) at 1/400 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

DKK1 Antibody - Background

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.

DKK1 Antibody - 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).

DKK1 Antibody - Citations

- YAP1 negatively regulates chondrocyte differentiation partly by activating the β-catenin signaling pathway.