

**DKK1 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21147a**

**Specification**

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**DKK1 Antibody - Product Information**

Application	IHC-P-Leica, IF, WB,E
Primary Accession	<a href="#">O94907</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	28672
Antigen Region	1-266

**DKK1 Antibody - Additional Information**

**Gene ID** 22943

**Other Names**

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

**Target/Specificity**

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

**Dilution**

IHC-P-Leica~~1:500

IF~~1:25

WB~~1:2000

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**

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

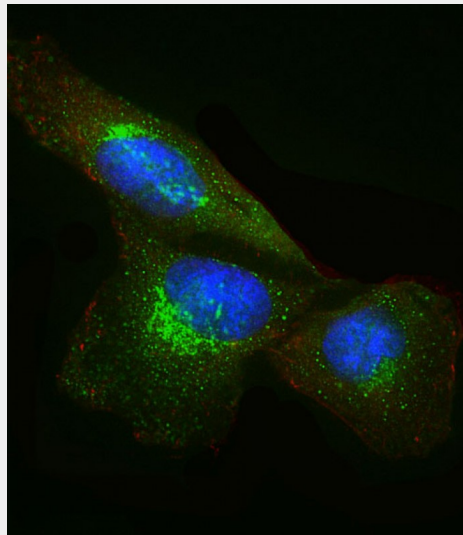
Placenta.

### DKK1 Antibody - Protocols

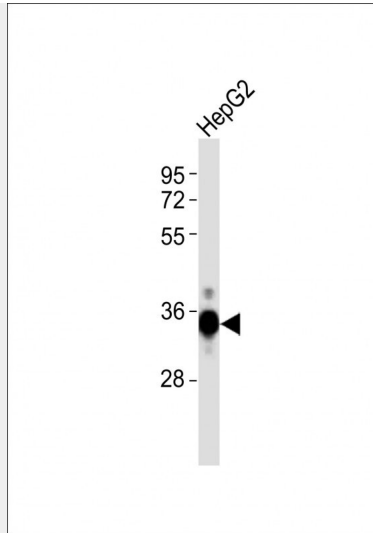
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

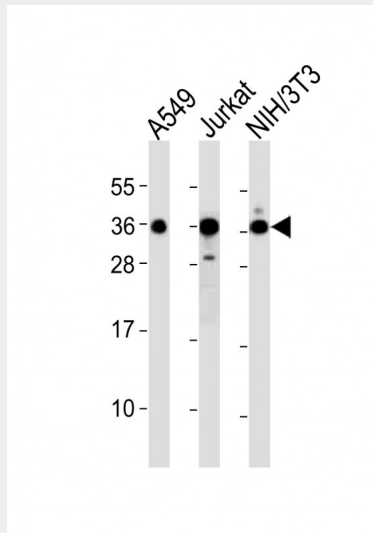
### DKK1 Antibody - Images



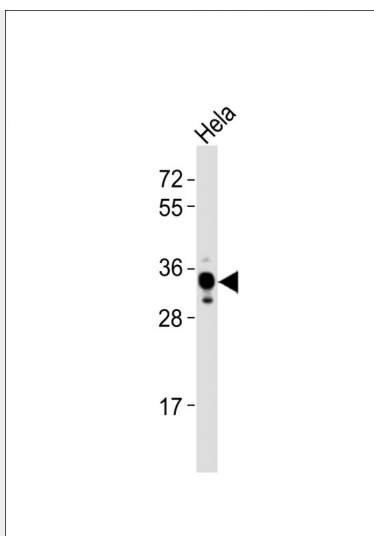
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-251 MG cells labeling DKK1 with AP21147a at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing Cytoplasm and Weak Nucleus staining on U-251 MG cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (red). The nuclear counter stain is DAPI (blue).



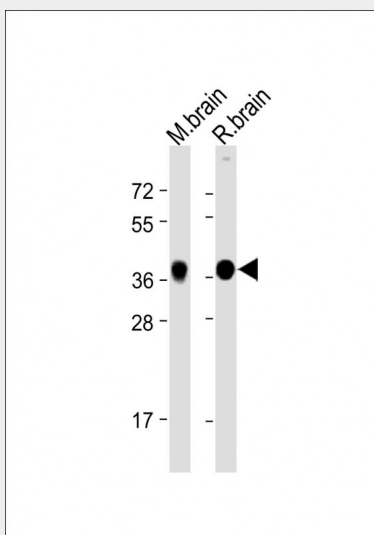
Anti-DKK1 Antibody at 1:1000 dilution + HepG2 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 29 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



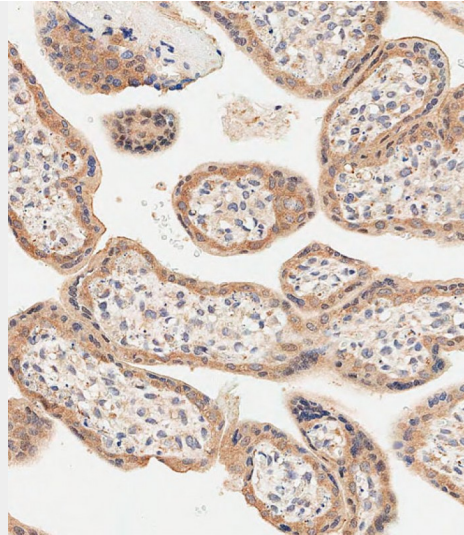
All lanes : Anti-DKK1 Antibody at 1:2000 dilution Lane 1: A549 whole cell lysates Lane 2: Jurkat whole cell lysates Lane 3: NIH/3T3 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 29 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



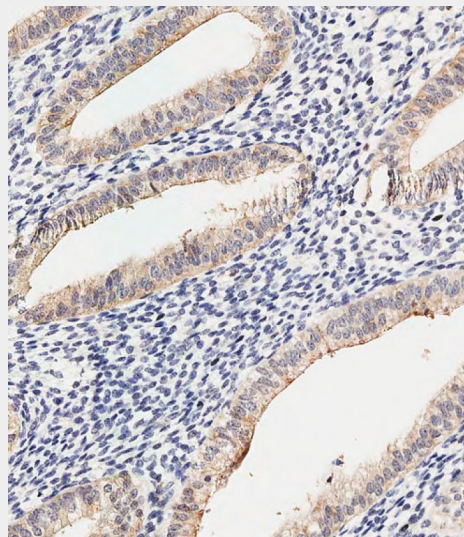
Anti-DKK1 Antibody at 1:4000 dilution + HeLa whole cell lysates Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 29 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



All lanes : Anti-DKK1 Antibody at 1:2000 dilution Lane 1: Mouse brain lysate Lane 2: Rat brain lysate Lysates/proteins at 20  $\mu$ g 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.



Immunohistochemical analysis of paraffin-embedded Human placenta tissue using AP21147a performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of paraffin-embedded Human uterus tissue using AP21147a performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

### **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**

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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).