

# **DKK1 Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP21147a

#### **Product Information**

**Application** IHC-P-Leica, IF, WB, E

Primary Accession 094907

Reactivity Human, Rat, Mouse

HostRabbitClonalitypolyclonalIsotypeRabbit IgGClone NamesRB52126Antigen Region1-266

#### **Additional Information**

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~~1:100 IF~~1:4000 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.

#### **Protein Information**

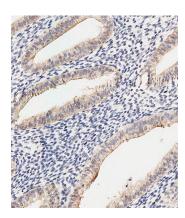
## **Background**

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.

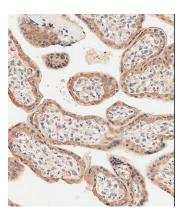
#### References

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).

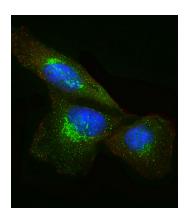
### **Images**



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.

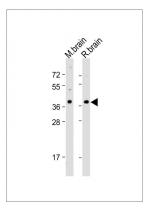


Immunohistochemical analysis of paraffin-embedded Human placenta tissue using AP21147a performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for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



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).

All lanes: Anti-DKK1 Antibody at 1:1000 dilution Lane 1: Mouse brain lysate Lane 2: Rat brain lysate 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.



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