

**DKK1 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1266a**

**Specification**

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**DKK1 Antibody - Product Information**

Application	<b>WB, ICC, IF</b>
Primary Accession	<a href="#">O94907</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG2b</b>
Calculated MW	<b>28.7kDa KDa</b>

**Description**

DKK1: dickkopf homolog 1 (*Xenopus laevis*), also known as SK. Entrez Protein NP\_036374. DKK1 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.

**Immunogen**

Purified recombinant fragment of DKK1 expressed in E. Coli.

**Formulation**

Ascitic fluid containing 0.03% sodium azide. <br />

**DKK1 Antibody - Additional Information**

**Gene ID** 22943

**Other Names**

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

**Dilution**

WB~~1/500 - 1/2000

ICC~~1:200~~1000

IF~~1:200~1000.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. 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:<a href="http://www.uniprot.org/citations/22000856" target="\_blank">22000856</a>). 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:<a href="http://www.uniprot.org/citations/17143291" target="\_blank">17143291</a>). 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](#)

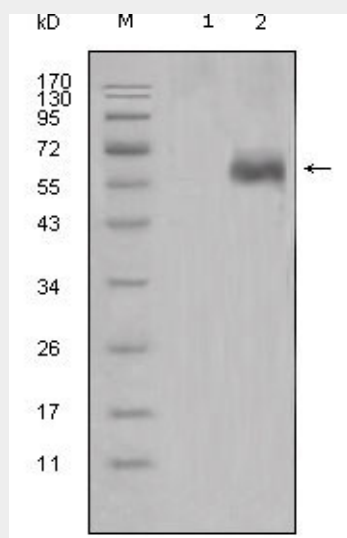
**DKK1 Antibody - Images**

Figure 1: Western blot analysis using DKK1 mouse mAb against HEK293 (1) and DKK1-hlgGfc transfected HEK293 cell lysate (2).

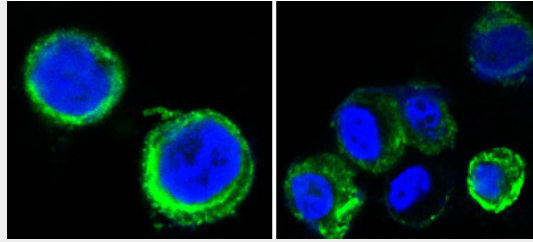


Figure 2: Confocal immunofluorescence analysis of methanol-fixed HEK293 cells transfected with AXL-hlgGFc using AXL mouse mAb (green), showing cytoplasmic and membrane localization. Blue: DRAQ5 fluorescent DNA dye.

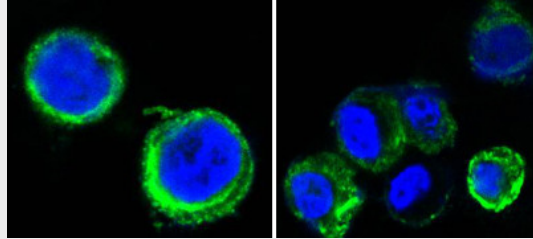


Figure 2: Confocal immunofluorescence analysis of methanol-fixed HEK293 cells transfected with AXL-hlgGFc using anti-AXL monoclonal antibody (green), showing cytoplasmic and membrane localization. Blue: DRAQ5 fluorescent DNA dye.

#### **DKK1 Antibody - References**

1. Dev Cell. 2008 Jul;15(1):37-48.
2. Cancer Lett. 2008 Sep 28;269(1):67-77.