

# Anti-DKK-1 Antibody

Catalog # ABO10781

## Product Information

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| <b>Application</b>       | WB                                                                                                                |
| <b>Primary Accession</b> | <a href="#">O94907</a>                                                                                            |
| <b>Host</b>              | Rabbit                                                                                                            |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                                 |
| <b>Clonality</b>         | Polyclonal                                                                                                        |
| <b>Format</b>            | Lyophilized                                                                                                       |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Dickkopf-related protein 1(DKK1) detection. Tested with WB in Human;Mouse;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                              |

## Additional Information

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| <b>Gene ID</b>                  | 22943                                                                                                                                                                              |
| <b>Other Names</b>              | Dickkopf-related protein 1, Dickkopf-1, Dkk-1, hDkk-1, SK, DKK1                                                                                                                    |
| <b>Calculated MW</b>            | 28672                                                                                                                                                                              |
| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat                                                                                                                                     |
| <b>Subcellular Localization</b> | Secreted.                                                                                                                                                                          |
| <b>Tissue Specificity</b>       | Placenta.                                                                                                                                                                          |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                          |
| <b>Protein Name</b>             | Dickkopf-related protein 1(Dickkopf-1/Dkk-1/hDkk-1)                                                                                                                                |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .                                                      |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the N-terminus of human DKK1(68-83aa YPGGNKYQTIDNYQPY), different from the related mouse and rat sequences by two amino acids.  |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                       |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                            |
| <b>Storage</b>                  | At -20° C for one year. After reconstitution, at 4° C for one month. It can also be aliquotted and stored frozen at -20° C for a longer time. Avoid repeated freezing and thawing. |

## Sequence Similarities

Belongs to the dickkopf family.

## Protein Information

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| <b>Name</b>              | DKK1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Function</b>          | 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="#">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="#">17143291</a> ). Inhibits the pro-apoptotic function of KREMEN1 in a Wnt-independent manner, and has anti-apoptotic activity (By similarity). |
| <b>Cellular Location</b> | Secreted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Tissue Location</b>   | Placenta.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Background

DKK1, Dickkopf-related protein 1, is a protein that in humans is encoded by the DKK1 gene. This gene encodes a protein that is a member of the dickkopf family. By genomic sequence analysis, determined that the DKK1 gene contains 4 exons. The DKK1 gene is mapped to 10q11.2 using FISH. 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.

## Images



Anti-DKK1 antibody, ABO10781, Western blotting  
Lane 1: U87 Cell Lysate  
Lane 2: MCF-7 Cell Lysate  
Lane 3: A549 Cell Lysate

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