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# DKK3 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1783a

## Product Information

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| **Application** | WB, IHC, FC, E |
| **Primary Accession** | Q9UBP4 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Clone Names** | 8A5C6 |
| **Isotype** | IgG1 |
| **Calculated MW** | 38390 |
| **Description** | This gene encodes a protein that is a member of the dickkopf family. The secreted protein contains two cysteine rich regions and is involved in embryonic development through its interactions with the Wnt signaling pathway. The expression of this gene is decreased in a variety of cancer cell lines and it may function as a tumor suppressor gene. Alternative splicing results in multiple transcript variants encoding the same protein. |
| **Immunogen** | Purified recombinant fragment of human DKK3 (AA: 91-350 ) expressed in E. Coli. |
| **Formulation** | Purified antibody in PBS with 0.05% sodium azide |

## Additional Information

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| **Gene ID** | 27122 |
| **Other Names** | Dickkopf-related protein 3, Dickkopf-3, Dkk-3, hDkk-3, DKK3, REIC |
| **Dilution** | WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1:10~50 E~~1/10000 |
| **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** | DKK3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | DKK3 |
| **Synonyms** | REIC |

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| **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. 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 (By similarity). |
| **Cellular Location** | Secreted. |
| **Tissue Location** | Highest expression in heart, brain, and spinal cord. {ECO:0000269\|PubMed:10570958, ECO:0000269\|Ref.4} |

## References

1.Exp Dermatol. 2011 Mar;20(3):273-7. 2.Thromb Haemost. 2011 Jan;105(1):72-80.

## Images

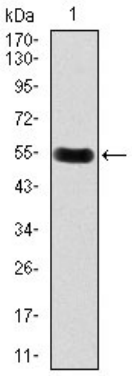



Figure 1: Western blot analysis using DKK3 mAb against human DKK3 recombinant protein. (Expected MW is 54.4 kDa)

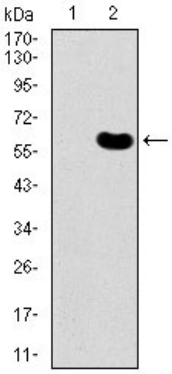



Figure 2: Western blot analysis using DKK3 mAb against HEK293 (1) and DKK3 (AA: 91-350)-hIgGFc transfected HEK293 (2) cell lysate.

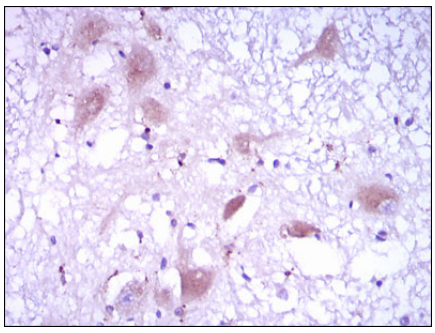


Figure 4: Immunohistochemical analysis of paraffin-embedded brain tissues using DKK3 mouse mAb with DAB staining.

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