abcam

Product datasheet

# Recombinant human DKK1 protein ab82115

## Description

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| **Product name** | Recombinant human DKK1 protein |
| **Biological activity** | Determined by its ability to inhibit mWnt3a-induced TCF/LEF-luciferase activity in reporter HEK293 cells. |
| **Purity** | > 95 % SDS-PAGE.<br>Purity is greater than 97% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per µg (1EU/µg). |
| **Endotoxin level** | < 0.100 Eu/µg |
| **Expression system** | HEK 293 cells |
| **Protein length** | Full length protein |
| **Animal free** | No |
| **Nature** | Recombinant |
| **Species** | Human |
| **Sequence** | TLNSVLNSNA IKNLPPPLGG AAGHPGSAVS AAPGILYPGG NKYQTIDNYQ PYPCAEDEEC GTDEYCASPT RGGDAGVQIC LACRKRRKRC MRHAMCCPGN YCKNGICVSS DQNHFRGEIE ETITESFGND HSTLDGYSRR TTLSSKMYHT KGQEGSVCLR SSDCASGLCC ARHFWSKICK PVLKEGQVCT KHRRKGSHGL EIFQRCYCGE GLSCRIQKDH HQASNSSRLH TCQRH |

## Specifications

Our **Abpromise guarantee** covers the use of **ab82115** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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| **Applications** | SDS-PAGE |
| **Form** | Lyophilized |

## Preparation and Storage

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| **Stability and Storage** | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.<br>pH: 7.50 |

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| | Constituents: 0.877% Sodium chloride, 0.164% Sodium phosphate |
| | This product is an active protein and may elicit a biological response in vivo, handle with caution. |
| **Reconstitution** | For lot specific reconstitution information please contact our Scientific Support Team. |

## General Info

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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. |
| **Tissue specificity** | Placenta. |
| **Sequence similarities** | Belongs to the dickkopf family. |
| **Domain** | The C-terminal cysteine-rich domain mediates interaction with LRP5 and LRP6. |
| **Cellular localization** | Secreted. |



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- We provide support in Chinese, English, French, German, Japanese and Spanish
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