

Datasheet for ABIN5510735

DKK4 ELISA Kit**1** Image[Go to Product page](#)

Overview

Quantity:	96 tests
Target:	DKK4
Binding Specificity:	AA 19-221
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse DKK4
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: NSO Immunogen sequence: L19-I221
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Target Details

Target:	DKK4
Alternative Name:	Dkk4 (DKK4 Products)
Background:	Protein Function: Antagonizes canonical Wnt signaling by inhibiting LRP5/6 interaction with

Target Details

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). .

Background: DKK4 is a member of the Dickkopf family which are negative regulators of the growth-promoting Wnt / beta-catenin signaling pathway. By FISH, the DKK4 gene was mapped to chromosome 8p11.2-p11.1. The secreted protein contains two cysteine rich regions and is involved in embryonic development through its interactions with the Wnt signaling pathway. Activity of this protein is modulated by binding to the Wnt co-receptor and the co-factor kremen 2. The expression of DKK4 was significantly reduced in hepatocellular carcinomas (HCCs), particularly in HCCs that showed cytoplasmic beta- catenin accumulation. DKK4 expression was also reduced in HCC cell lines. Ectopic expression of DKK4 in 2 HCC cell lines reduced beta-catenin and cyclin D1 protein levels and attenuated beta-catenin activity in reporter gene assays.

Synonyms: Dickkopf-related protein 4, Dickkopf-4, Dkk-4, Dkk4,

Full Gene Name: Dickkopf-related protein 4

Cellular Localisation: Secreted.

UniProt: [Q8VEJ3](#)

Pathways: [WNT Signaling](#)

Application Details

Plate: Pre-coated

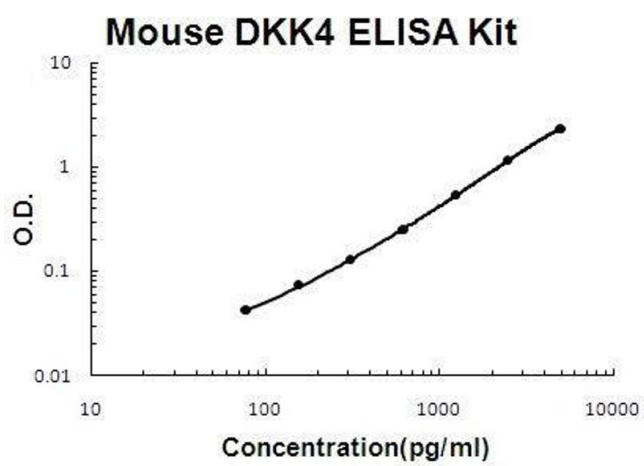
Restrictions: For Research Use only

Handling

Storage: 4 °C, -20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

Expiry Date: 12 months



ELISA

Image 1. Mouse DKK4 PicoKine ELISA Kit standard curve