Datasheet for ABIN2870733

DKK1 Protein (AA 32-272) (His tag)

2 Images

Go to Product page

Overview

Quantity:	50 µg
Target:	DKK1
Protein Characteristics:	AA 32-272
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DKK1 protein is labelled with His tag.

Product Details

Sequence:	AA 32-272
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 28 kDa. The protein migrates as 41-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	DKK1
Alternative Name:	Dkk-1 (DKK1 Products)
Background:	Members of the dickkopf-related protein family (DKK-1, -2, -3, and -4) are secreted proteins with two cysteine-rich domains separated by a linker region. And DKK1 takes part in embryonic

Target Details

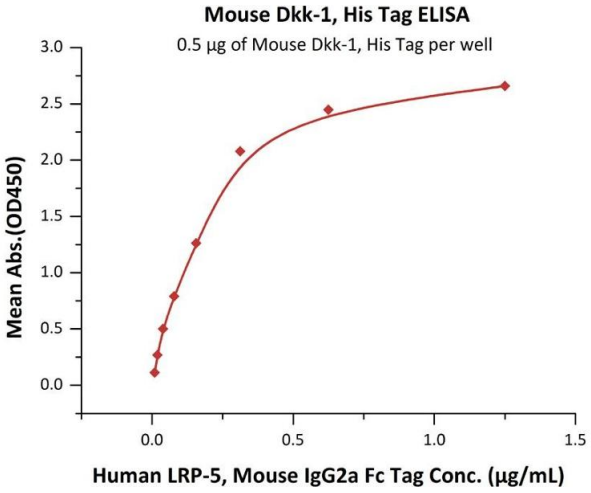
	development through its inhibition of the WNT signaling pathway, binds to LRP6 with high affinity and prevents the Frizzled-Wnt-LRP6 complex formation in response to Wnts. DKK1 promotes LRP6 internalization and degradation when it forms a ternary complex with the cell surface receptor Kremen.DKK1 not olny functions as a head inducer during development, but also regulates joint remodeling and bone formation, which suggests roles for DKK1 in the pathogenesis of rheumatoid arthritis and multiple myeloma. More recently research reported, DKK1 impacts eye development from a defined developmental time point on, and is critical for lens separation from the surface ectoderm via β-catenin mediated Pdgfrα and E-cadherin expression.
Molecular Weight:	28.0 kDa
UniProt:	O54908
Pathways:	WNT Signaling, Regulation of Muscle Cell Differentiation, Positive Regulation of fat Cell Differentiation

Application Details

Restrictions:	For Research Use only

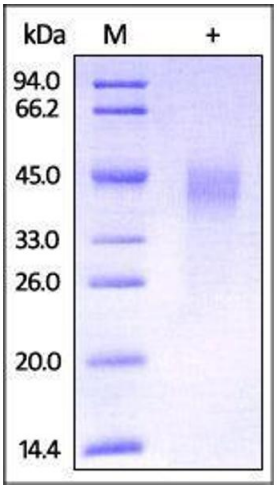
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C



ELISA

Image 1. Immobilized Mouse Dkk-1, His Tag (ABIN2870732,ABIN2870733) at 5 µg/mL (100 µL/well) can bind Human LRP-5, Mouse IgG2a Fc Tag (ABIN6731303,ABIN6809855) with a linear range of 0.01-0.313 µg/mL (QC tested).



SDS-PAGE

Image 2. Mouse Dkk-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.