Datasheet for ABIN7539310

DKK1 Protein (His tag)

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Overview

Quantity:	20 µg
Target:	DKK1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DKK1 protein is labelled with His tag.

Product Details

Purpose:	Dkk-1
Sequence:	TLNSVLNSNA IKNLPPPLGG AAGHPGSAVS AAPGILYPGG NKYQTIDNYQ PYPCAEDEEC GTDEYCASPT RGGDAGVQIC LACRKRRKRC MRHAMCCPGN YCKNGICVSS DQNHFRGEIE ETITESFGND HSTLDGYSRR TTLSSKMYHT KGQEGSVCLR SSDCASGLCC ARHFWSKICK PVLKEGQVCT KHRRKGSHGL EIFQRCYCGE GLSCRIQKDH HQASNSSRLH TCQRLEHHHH HH
Specificity:	Chromosomal location:10q11.2
Characteristics:	Length (aa):242
Purity:	95 % by SDS-PAGE and visualized Coomassie stain

Target Details

Target:	DKK1
Alternative Name:	Dkk-1 (DKK1 Products)
Background:	Dickkopf-related protein-1, Dickkopf-1, SK,DKK-1 is a member of the DKK protein family which

Target Details

	also includes DKK-2, DKK-3 and DKK-4. DKK-1 was originally identified as a Xenopus head forming molecule that behaves as an antagonist for Wnt signaling. Subsequent studies have shown that DKK-1 and DKK-4 play an important regulatory role in the Wnt /β-catenin signaling pathway by forming inhibitory complexes with LDL receptor-related proteins 5 and 6 (LRP5 and LRP6), which are essential components of the Wnt/βcatenin signaling system. LPR5 and LPR6 are single-pass transmembrane proteins that appear to act as co-receptors for Wnt ligands involved in the Wnt/βcatenin signaling cascade. It has been suggested that by inhibiting Wnt/β-catenin signaling, which is essential for posterior patterning in vertebrates, DKK-1 permits anterior development. This notion is supported by the finding that mice deficient of DKK-1 expression lack head formation and die during embryogenesis. Recombinant human DKK-1 fused to a C terminal His-tag derived from E. coli is a 26 kDa protein containing 235 amino-acid residues.
Molecular Weight:	26.0 kDa
Gene ID:	22943
NCBI Accession:	NM_012242, NP_036374
UniProt:	O94907
Pathways:	WNT Signaling, Regulation of Muscle Cell Differentiation, Positive Regulation of fat Cell Differentiation

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	water
Buffer:	PBS