Datasheet for ABIN935316

DKK1 Protein

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Overview

Quantity:	10 µg
Target:	DKK1
Origin:	Human
Source:	HEK-293T Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

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
Characteristics:	Human recombinant DKK1 protein Expression System: 293 cells Bioactivity: Determined by its ability to inhibit the proliferation of HCT116 colorectal carcinoma cells. Approximately 40 % growth inhibition was achieved at a DKK-1 concentration of 200ng/mL.
Purity:	> 97 % pure
Endotoxin Level:	< 0.1 ng per µg (1 EU/µg).

Target Details

Target:	DKK1

Target Details

Alternative Name:	DKK1 (DKK1 Products)
Background:	DKK-1 is a member of the DKK protein family which 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 /beta-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/betacatenin signaling system. LPR5 and LPR6 are single-pass transmembrane proteins that appear to act as co-receptors for Wnt ligands involved in the Wnt/betacatenin signaling cascade. It has been suggested that by inhibiting Wnt/beta-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. Alternative Names: Dickkopf-related protein-1 protein, DKK 1, Dickkopt-1 protein, SK protein, DKK-1 protein, DKK-1, DKK-1 protein, DKK 1 protein, DKK1
Molecular Weight:	35-40 kDa
Pathways:	WNT Signaling, Regulation of Muscle Cell Differentiation, Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	Each Investigator should determine their own optimal working dilution for specific applications.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from PBS buffer, pH 7.4.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	RT/-20 °C