

Human CellExp DKK-1, Human recombinant protein Dickkopf-related protein-1, Dickkopf-1, SK Catalog # PBV10767r

Specification

Human CellExp DKK-1, Human recombinant protein - Product info

Primary Accession Calculated MW <u>094907</u> 35-40 kDa KDa

22943 DKK-1

Human CellExp DKK-1, Human recombinant protein - Additional Info

Gene ID	
Gene Symbol	
Other Names	
Dickkopf-related protein-1, Dickkopf-1, SK	

Gene Source Source Assay&Purity Assay2&Purity2 Recombinant Sequence Human HEK 293 cells SDS-PAGE; ≥97% HPLC; Yes TLNSVLNSNA IKNLPPPLGG AAGHPGSAVS AAPGILYPGG NKYQTIDNYQ PYPCAEDEEC GTDEYCASPT RGGDAGVQIC LACRKRRKRC MRHAMCCPGN YCKNGICVSS DQNHFRGEIE ETITESFGND HSTLDGYSRR TTLSSKMYHT KGQEGSVCLR SSDCASGLCC ARHFWSKICK PVLKEGQVCT KHRRKGSHGL EIFQRCYCGE GLSCRIQKDH HQASNSSRLH TCQRH

Target/Specificity DKK-1

Application Notes

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format Lyophilized powder

Storage -20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 1X PBS, pH 7.5.

Human CellExp DKK-1, Human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.



- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Human CellExp DKK-1, Human recombinant protein - Images

Human CellExp DKK-1, Human recombinant protein - 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 / 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/ β catenin signaling system. LPR5 and LPR6 are single-pass transmembrane proteins that appear to act as co-receptors for Wnt ligands involved in the Wnt/ β catenin 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 expressed in human 293 cells is a 35-40 kDa glycoprotein containing 235 amino-acid residues.

Human CellExp DKK-1, Human recombinant protein - References

Fedi P.,et al.J. Biol. Chem. 274:19465-19472(1999). Krupnik V.E.,et al.Gene 238:301-313(1999). Tate G.,et al.Submitted (NOV-1998) to the EMBL/GenBank/DDBJ databases. Roessler E.,et al.Cytogenet. Cell Genet. 89:220-224(2000). Clark H.F.,et al.Genome Res. 13:2265-2270(2003).