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## Datasheet for ABIN7539309 DKK2 Protein (His tag)

### Overview

Quantity:	20 µg
Target:	DKK2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DKK2 protein is labelled with His tag.

### Product Details

Purpose:	Dkk-2
Sequence:	MKLNSIKSSL GGETPGQAAN RSAGMYQGLA FGGSKKGKLNL GQAYPCSSDK ECEVGRYCHS PHQGSSACMV CRRKKRCHR DGMCCPSTRC NNGICIPVTE SILTPHIPAL DGTRHRDRNH GHYSNHDLGW QNLGRPHTKM SHIKGHEGDP CLRSSDCIEG FCCARHFWTK ICKPVLHQGE VCTKQRKKGS HGLEIFQRCD CAKGLSCKVW KDATYSSKAR LHVCQKITRL EHHHHHHH
Specificity:	Chromosomal location:10q11.2
Characteristics:	Length (aa):235
Purity:	95 % by SDS-PAGE and visualized Coomassie stain

### Target Details

Target:	DKK2
Alternative Name:	Dkk-2 ( <a href="#">DKK2 Products</a> )
Background:	Dickkopf-related protein-2, Dickkopf-2, The dickkopf (DKK)-related protein family is comprised of

## Target Details

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four central members, DKK-1 - 4, along with the distantly-related DKK family member DKK-11 (Soggy), which is thought to be a descendent of an ancestral DKK-3 precursor due to its unique sequence homology to DKK-3 and no other DKK family member. DKK family members, with the exception of the divergent Soggy, share two conserved cysteine-rich domains and show very little sequence similarity outside of these domains. Playing an important regulatory role in vertebrate development through localized inhibition of Wnt-regulated processes, including anterior-posterior axial patterning, limb development, somitogenesis, and eye formation, DKKS have also been implicated post-developmentally in bone formation, bone disease, cancer, and neurodegenerative diseases. DKK proteins typically 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/ $\beta$ -catenin signaling system. LRP5 and LRP6 are single-pass transmembrane proteins that appear to act as co-receptors for Wnt ligands involved in the Wnt/ $\beta$ -catenin signaling cascade. DKK-2 has been shown to both inhibit and enhance canonical Wnt signaling, enhancing Wnt signaling through direct high-affinity binding of DKK-2 to LRP6 during LRP6 overexpression, while inhibiting Wnt signaling and promoting LRP6 internalization through the formation of a ternary complex between DKK-2, LRP6, and Kremen-2. Recombinant Human DKK-2 fused to a C terminal His-tag derived from E. coli has a molecular weight of 26.0 kDa and contains 234 amino acid residues.

Molecular Weight:	26.0 kDa
Gene ID:	22943
NCBI Accession:	<a href="#">NM_012242, NP_036374</a>
UniProt:	<a href="#">O94907</a>
Pathways:	<a href="#">WNT Signaling</a>

## Application Details

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Restrictions: For Research Use only

## Handling

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Format:	Lyophilized
Reconstitution:	water
Buffer:	PBS