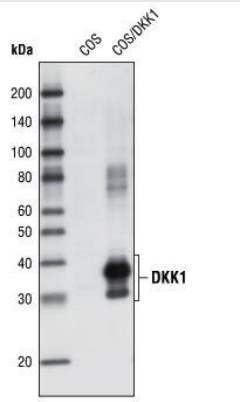
Dkk-1 (DKK1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Dkk-1 (DKK1), Polyclonal Antibody
Full Product Name	Dkk-1 (DKK1, SK, DKK-1, Dickkopf Homolog 1 (Xenopus laevis), Dickkopf-1 Like, Dickkopf (Xenopus laevis) Homolog 1)
Product Gene Name	anti-DKK1 antibody
Product Synonym Names	Anti -Dkk-1 (DKK1, SK, DKK-1, Dickkopf Homolog 1 (Xenopus laevis), Dickkopf-1 Like, Dickkopf (Xenopus laevis) Homolog 1)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in 10mM sodium HEPES, pH 7.5, 150mM sodium chloride, 100ug/ml BSA, 50% glycerol.
Purity/Purification	Purified by peptide affinity chromatography.
Specificity	Detects transfected levels of DKK1 protein. This antibody does not cross-react with DKK2.
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage, aliquot and store at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	28,672 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (54074041..54077417). Location: 10q11.2
OMIM	605189
3D Structure	ModBase 3D Structure for O94907
Immunogen	Synthetic peptide (KLH-coupled) corresponding to residues surrounding Gln75 of human DKK1.
Product Categories/Family for anti-DKK1 antibody	Antibodies; Abs to Dickkopf Proteins
Applications Tested/Suitable for anti-DKK1 antibody	Western Blot (WB)
Application Notes for anti-DKK1 antibody	Suitable for use in Western Blot. Dilution: Western Blot: 1:1000
Related Product Information for anti-DKK1 antibody	Dickkopf (DKK) family of proteins consist of four members DKK1, DKK2, DKK3 and DKK4 and function as secreted Wnt antagonists by inhibiting Wnt coreceptors LRP5 and LRP6 (1,2). DKKs contain two cysteine-rich domains in which the positions of 10 cysteine residues are well conserved (3). Their expression is both temporally and spatially regulated during animal development (4). DKKs also bind with high affinity to transmembrane proteins Kremen1 and 2, which themselves also modulate Wnt signaling (5,6). DKK1 was initially identified as an inducer of head formation in Xenopus embryos (7) and plays an important role in the regulation of bone mass (8-10). Increased levels of DKK1 are found in the majority of lung cancers, esophageal squamous cell carcinomas, and hormone-resistant breast cancers (11,12), while DKK1 expression is decreased in malignant melanoma and colorectal cancers (13,14).
Other Notes	Small volumes of anti-DKK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for DKK1 purchase	MBS611995 is an antibody targeting DKK1. Also known as Dkk-1 (DKK1, SK, DKK-1, Dickkopf Homolog 1 (Xenopus laevis), Dickkopf-1 Like, Dickkopf (Xenopus laevis) Homolog 1). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-DKK1 antibody
Western blot analysis of COS cell extracts, untransfected or transiently transfected with a construct expressing DKK1, using MBS611995 DKK1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DKK1. It may not necessarily be applicable to this product.

NCBI GI #	7110719
NCBI GeneID	22943
NCBI Accession #	NP_036374.1
UniProt Primary Accession #	O94907
UniProt Secondary Accession #	B2RC19
UniProt Related Accession #	O94907
GenBank Nucleotide #	NM_012242.2
NCBI Official Full Name	dickkopf-related protein 1
NCBI Official Synonym Full Names	dickkopf homolog 1 (Xenopus laevis)
NCBI Official Symbol	DKK1
NCBI Official Synonym Symbols	SK; DKK-1
UniProt Protein Name	Dickkopf-related protein 1
UniProt Synonym Protein Names	SK
Protein Family	Dickkopf-related protein
UniProt Gene Name	DKK1
UniProt Entry Name	DKK1_HUMAN
NCBI Protein Information	dickkopf-related protein 1; hDkk-1; dickkopf-1 like; OTTHUMP00000019617; dickkopf related protein-1
NCBI Summary for DKK1	This gene encodes a protein that is a member of the dickkopf family. It is a secreted protein with two cysteine rich regions and is involved in embryonic development through its inhibition of the WNT signaling pathway. Elevated levels of DKK1 in bone marrow plasma and peripheral blood is associated with the presence of osteolytic bone lesions in patients with multiple myeloma. [provided by RefSeq]

UniProt Comments for DKK1	DKK1: Antagonizes canonical Wnt signaling by inhibiting LRP5/6 interaction with Wnt and by forming a ternary complex with the transmembrane protein KREMEN that promotes internalization of LRP5/6. DKKs play an important role in vertebrate development, where they locally inhibit Wnt regulated processes such as antero- posterior axial patterning, limb development, somitogenesis and eye formation. In the adult, Dkks are implicated in bone formation and bone disease, cancer and Alzheimer disease. Interacts with LRP6. Interacts (via the C-termianl Cys- rich domain) with LRP5 (via beta-propeller regions 3 and 4); the interaction, enhanced by MESD and or KREMEN, antagonizes Wnt- mediated signaling. Placenta. Belongs to the dickkopf family. Protein type: Inhibitor; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 10q11.2 Cellular Component: extracellular space; early endosome membrane; extracellular region; plasma membrane Molecular Function: signal transducer activity; protein binding; receptor antagonist activity; growth factor activity; low-density lipoprotein receptor binding Biological Process: negative regulation of skeletal muscle development; cellular morphogenesis during differentiation; negative regulation of Wnt receptor signaling pathway; response to retinoic acid; regulation of receptor internalization; negative regulation of peptidyl-serine phosphorylation; negative regulation of transcription from RNA polymerase II promoter; negative regulation of BMP signaling pathway; hair follicle development; negative regulation of mesodermal cell fate specification; mesoderm formation; endoderm formation; forebrain development; regulation of endodermal cell fate specification; negative regulation of protein complex assembly; embryonic limb morphogenesis
Research Articles on DKK1	**1.** there are distinct functions of DKK1 and DKK2 in controlling angiogenesis
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