DKK1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	DKK1, Monoclonal Antibody
Full Product Name	DKK1 (Dickkopf Homolog 1 (Xenopus laevis), DKK-1, SK) (MaxLight 405)
Product Gene Name	anti-DKK1 antibody
Product Synonym Names	Dickkopf Homolog 1 (Xenopus laevis); DKK-1; SK
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3H7
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified
Specificity	Recognizes DKK1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	27.8kDa (253aa) 28-40kDa (SDS-PAGE under reducing conditions)
OMIM	605189
3D Structure	ModBase 3D Structure for O94907
Immunogen	DKK1 (NP_036374, 171aa-266aa) full length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	RTTLSSKMYHTKGQEGSVCLRSSDCASGLCCARHFWSKICKPVLKEGQVCTKHRRKGSHGLEIFQRCYCGEGLSCRIQKDHHQASNSSRLHTCQRH*
Conjugate	MaxLight405
Product Categories/Family for anti-DKK1 antibody	Antibodies; Dickkopf Proteins
Applications Tested/Suitable for anti-DKK1 antibody	Immunofluorescence (IF)
Application Notes for anti-DKK1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-DKK1 antibody	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]

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	MBS6195216 is an antibody targeting DKK1. Also known as DKK1 (Dickkopf Homolog 1 (Xenopus laevis), DKK-1, SK) (MaxLight 405). Host: Mouse.

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
UniProt Primary Accession #	O94907
UniProt Secondary Accession #	B2RC19
UniProt Related Accession #	O94907
GenBank Nucleotide #	NM_012242.3
NCBI Official Full Name	dickkopf-related protein 1
NCBI Official Synonym Full Names	dickkopf WNT signaling pathway inhibitor 1
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 Synonym Gene Names	Dickkopf-1; Dkk-1; hDkk-1
UniProt Entry Name	DKK1_HUMAN
NCBI Protein Information	dickkopf-related protein 1
NCBI Summary for DKK1	This gene encodes a member of the dickkopf family of proteins. Members of this family are secreted proteins characterized by two cysteine-rich domains that mediate protein-protein interactions. The encoded protein binds to the LRP6 co-receptor and inhibits beta-catenin-dependent Wnt signaling. This gene plays a role in embryonic development and may be important in bone formation in adults. Elevated expression of this gene has been observed in numerous human cancers and this protein may promote proliferation, invasion and growth in cancer cell lines. [provided by RefSeq, Sep 2017]

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: Secreted; Secreted, signal peptide; Inhibitor Chromosomal Location of Human Ortholog: 10q11.2 Cellular Component: extracellular space; early endosome membrane; extracellular region; plasma membrane Molecular Function: protein binding; receptor antagonist activity; signal transducer activity; growth factor activity; low-density lipoprotein receptor binding Biological Process: cellular morphogenesis during differentiation; negative regulation of skeletal muscle development; response to retinoic acid; negative regulation of Wnt receptor signaling pathway; 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; negative regulation of mesodermal cell fate specification; mesoderm formation; hair follicle development; endoderm formation; forebrain development; regulation of endodermal cell fate specification; negative regulation of protein complex assembly; embryonic limb morphogenesis
Research Articles on DKK1	**1.** Sclerostin But Not Dickkopf-1 has roles in increasing prevalence of osteoporotic fracture and lower bone mineral density in postmenopausal Korean women
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