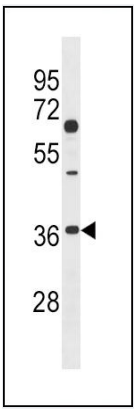
DKK-2 Antibody – Rabbit Polyclonal

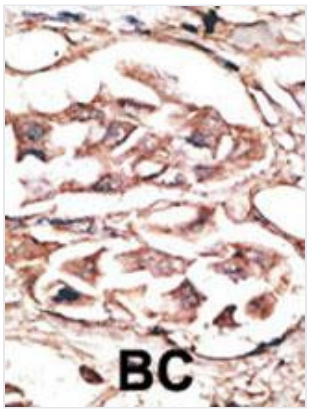
PRODUCT OVERVIEW

Product Name	Dkk-2, Polyclonal Antibody
Full Product Name	Dkk-2 CT (Dickkopf Related Protein-2, Dickkopf-2, DKK-2, UNQ682/PRO1316) (FITC)
Product Gene Name	anti-Dkk-2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human DKK2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	28,447 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (107842959..107957453, complement). Location: 4q25
OMIM	605415
3D Structure	ModBase 3D Structure for Q9UBU2
Immunogen	Peptide corresponding to a sequence selected for the C-terminal region of human DKK2.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-Dkk-2 antibody	Antibodies; Dickkopf Proteins
Applications Tested/Suitable for anti-Dkk-2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-Dkk-2 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-Dkk-2 antibody	MBS6472595 is an antibody targeting Dkk-2. Also known as Dkk-2 CT (Dickkopf Related Protein-2, Dickkopf-2, DKK-2, UNQ682/PRO1316) (FITC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-Dkk-2 antibody	1. Clark, H.F., et al., Genome Res. 13(10):2265-2270 (2003). 2. Brott, B.K., et al., Mol. Cell. Biol. 22(17):6100-6110 (2002). 3. Krupnik, V.E., et al., Gene 238(2):301-313 (1999).

Other Notes	Small volumes of anti-Dkk-2 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.



Western Blot (WB) of anti-Dkk-2 antibody
DKK2 Antibody (C239) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the DKK2 antibody detected the DKK2 protein (arrow).



Immunohistochemistry (IHC) of anti-Dkk-2 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Dkk-2. It may not necessarily be applicable to this product.

NCBI GI #	7657023
NCBI GeneID	27123
NCBI Accession #	NP_055236.1
UniProt Primary Accession #	Q9UBU2
UniProt Secondary Accession #	Q9UIU3; A0AVE9; B2R6S7
UniProt Related Accession #	Q9UBU2
GenBank Nucleotide #	NM_014421.2
NCBI Official Full Name	dickkopf-related protein 2
NCBI Official Synonym Full Names	dickkopf WNT signaling pathway inhibitor 2
NCBI Official Symbol	DKK2
NCBI Official Synonym Symbols	DKK-2
UniProt Protein Name	Dickkopf-related protein 2
Protein Family	Dickkopf-related protein
UniProt Gene Name	DKK2
UniProt Synonym Gene Names	Dickkopf-2; Dkk-2; hDkk-2
UniProt Entry Name	DKK2_HUMAN
NCBI Protein Information	dickkopf-related protein 2; hDkk-2; dickkopf-2; dickkopf 2 homolog; dickkopf homolog 2; dickkopf related protein-2
NCBI Summary for Dkk-2	This gene encodes a protein that is a member of the dickkopf family. The secreted protein contains two cysteine rich regions and is involved in embryonic development through its interactions with the Wnt signaling pathway. It can act as either an agonist or antagonist of Wnt/beta-catenin signaling, depending on the cellular context and the presence of the co-factor kremen 2. Activity of this protein is also modulated by binding to the Wnt co-receptor LDL-receptor related protein 6 (LRP6). [provided by RefSeq, Jul 2008]

UniProt Comments for Dkk-2	DKK2: 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 LRP5 and LRP6. Expressed in heart, brain, skeletal muscle and lung. Belongs to the dickkopf family. Protein type: Inhibitor; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 4q25 Cellular Component: extracellular space Biological Process: Wnt receptor signaling pathway; multicellular organismal development
Research Articles on Dkk-2	**1.** Our results provide strong evidence that DKK2 is a key player in Ewing sarcoma invasion and osteolysis and also in the differential phenotype of Ewing sarcoma cells.
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