Rabbit Anti-Human Dickkopf 1 Homolog Monoclonal Antibody

Cat. No. CAB11524RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human Dickkopf 1 Homolog
Species	Human
Source	Rabbit
Antigen Description	DKK1 (dickkopf related protein 1) is a head inducer secreted from the vertebrate head organizer and belongs to the DKK protein family including four members. DKK1 is synthesized initially as a precursor protein with an N-terminal signal peptide and two cysteine-rich domains. DKK proteins have distinct patterns of expression in adult and embryonic tissues and have effects on Wnt signaling implicated in diverse processes. Dkk1 is a specific and high-affinity ligand for LRP6 (LDL-receptor-related protein 6) acting as a Wnt co-receptor. Dkk1 blocks LRP6-mediated Wnt/beta-catenin signaling by antagonistically inhibiting the formation of Wnt-Fz-LRP6 complex which triggers the Wnt signal pathway. It is revealed that Wnt signaling in osteoblasts is necessary to promote BMP-2-mediated differentiation of pre-osteoblast cells, and therefore, DKK1 may play a key role in regulating pre-osteoblast differentiation and the development of multiple myeloma-associated osteolytic bone lesions.
Specificity	Human Dkk1 / Dickkopf-1. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	Recombinant human Dkk1 protein
Isotype	Rabbit IgG

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Clone	A005
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human Dkk1 in WB. Using a DAB detection system, the detection limit for Dkk1 is approximately 1 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommendedELISA: This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human Dkk1. The detection limit for human Dkk1 is approximately 0.00975 ng/well
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human dickkopf related protein 1.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70°C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	DKK1 dickkopf 1 homolog (Xenopus laevis) [Homo sapiens]
Official Symbol	DKK1
Synonyms	DKK1; dickkopf 1 homolog (Xenopus laevis); dickkopf (Xenopus laevis) homolog 1; dickkopf-related protein 1; DKK 1; SK; hDkk-1; dickkopf-1 like; dickkopf related

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	protein-1; DKK-1;
Gene ID	22943
mRNA Refseq	NM_012242
Protein Refseq	NP_036374
MIM	605189
UniProt ID	O94907
Chromosome Location	10q11.2
Pathway	Direct p53 effectors, organism-specific biosystem; Presenilin action in Notch and Wnt signaling, organism-specific biosystem; Regulation of Wnt-mediated beta catenin signaling and target gene transcription, organism-specific biosystem; Validated targets of C-MYC transcriptional repression, organism-specific biosystem; Wnt Signaling Pathway NetPath, organism-specific biosystem; Wnt signaling network, organism-specific biosystem; Wnt signaling pathway, organism-specific biosystem;
Function	growth factor activity; low-density lipoprotein particle receptor binding; protein binding; receptor antagonist activity; signal transducer activity;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA