



Anti-DKK4 monoclonal antibody, clone 296800 (DCABY-4218)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Members of the dickkopf-related protein family (Dkk-1, -2, -3, and -4) are secreted proteins with two cysteine-rich domains separated by a linker region. Dkk-3 and -4 also have one prokineticin domain. Dkk-1, -2, and -4 function as antagonists of canonical Wnt signaling by binding to LRP5/6, preventing interaction of LRP5/6 with Wnt-Frizzled complexes. Dkk-1, -2, and -4 also bind cell surface Kremen-1 or -2 and promote the internalization of LRP5/6. Antagonistic activity of Dkk-3 has not been demonstrated. Dkk proteins have distinct patterns of expression in adult and embryonic tissues and have a wide range of effects on tissue development and morphogenesis. The Dkk family also includes Soggy, which is homologous to Dkk-3 but not to the other family members. Soggy has not been shown to inhibit Wnt signaling, and its role in the pathway is unclear.
Specificity	Detects human Dkk-4 in ELISAs and Western blots. In direct ELISAs and Western blots, less than 2% cross-reactivity with recombinant mouse (rm) Dkk-4 is observed and no cross-reactivity with recombinant human (rh)Dkk-1 or rhDkk-3 is observed. In sandwich immunoassays, less than 2% cross-reactivity with rmDkk-4 is observed and no cross-reactivity with rhDkk-1, recombinant rat Dkk-1, rmDkk-1, or rhDkk-3 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Dkk-4. Leu19-Leu224 Accession Number Q9UBT3
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human
Clone	296800
Purification	Protein A or G purified from hybridoma culture supernatant

Conjugate	Unconjugated
Applications	Western Blot, ELISA Capture (Matched Pair)
Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	DKK4 dickkopf WNT signaling pathway inhibitor 4 [Homo sapiens (human)]
Official Symbol	DKK4
Synonyms	DKK4; dickkopf WNT signaling pathway inhibitor 4; DKK-4; dickkopf-related protein 4; hDkk-4; dickkopf-4;
Entrez Gene ID	27121
Protein Refseq	NP_055235
UniProt ID	Q9UBT3
Chromosome Location	8p11.2-p11.1
Pathway	Regulation of Wnt-mediated beta catenin signaling and target gene transcription; Signal Transduction; Signaling by Wnt; TCF dependent signaling in response to WNT; Wnt signaling pathway; negative regulation of TCF-dependent signaling by WNT ligand antagonist
Function	molecular_function;