



Anti-DKK1 polyclonal antibody [Biotin] (DPABY-394)

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-1 in ELISAs and Western blots. In sandwich immunoassays, approximately 85% cross-reactivity with rmDkk-1 is observed and less than 0.2% cross-reactivity with rhDkk-4 is observed.
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Dkk-1. Thr32-His266 Accession Number O94907
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, ELISA Detection (Matched Pair)

Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
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	DKK1 dickkopf WNT signaling pathway inhibitor 1 [Homo sapiens (human)]
Official Symbol	DKK1
Synonyms	DKK1; dickkopf WNT signaling pathway inhibitor 1; SK; DKK-1; dickkopf-related protein 1; hDkk-1; dickkopf-1 like; dickkopf 1 homolog; dickkopf-like protein 1; dickkopf related protein-1;
Entrez Gene ID	22943
Protein Refseq	NP_036374
UniProt ID	I1W660
Chromosome Location	10q11.2
Pathway	Cardiac Progenitor Differentiation; Direct p53 effectors; Presenilin action in Notch and Wnt signaling; Regulation of Wnt-mediated beta catenin signaling and target gene transcription; Signal Transduction; Signaling by Wnt; TCF dependent signaling in resp
Function	growth factor activity; low-density lipoprotein particle receptor binding; protein binding; receptor antagonist activity; signal transducer activity;