



Anti-DKK1 polyclonal antibody (DPABY-299)

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 mouse Dkk-1 in ELISAs and Western blots. In sandwich ELISAs, less than 6% cross-reactivity with recombinant human Dkk-1 and less than 0.1% cross-reactivity with recombinant mouse (rm)Dkk-2, rmDkk-3, and rmDkk-4 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Dkk-1. Ser30-His272 Accession Number O54908
Isotype	IgG
Source/Host	Goat
Species Reactivity	Mouse
Purification	Antigen Affinity-purified
Conjugate	Unconjugated
Applications	Western Blot, Immunohistochemistry, ELISA Capture (Matched Pair)
Format	Liquid

Size	100 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 from date of receipt, 2 to 8 °C, reconstituted. 6 months from date of receipt, -20 to -70 °C, reconstituted.

GENE INFORMATION

Gene Name	Dkk1 dickkopf homolog 1 (Xenopus laevis) [Mus musculus (house mouse)]
Official Symbol	DKK1
Synonyms	DKK1; dickkopf homolog 1 (Xenopus laevis); mdkk-1; dickkopf-related protein 1; dkk-1; dickkopf-1; dickkopf-like protein 1;
Entrez Gene ID	13380
Protein Refseq	NP_034181
UniProt ID	O54908
Chromosome Location	19; 19 C2
Pathway	PluriNetWork; Signal Transduction; Signaling by Wnt; TCF dependent signaling in response to WNT; Wnt Signaling Pathway NetPath; Wnt signaling pathway; negative regulation of TCF-dependent signaling by WNT ligand antagonists;
Function	low-density lipoprotein particle receptor binding; protein binding; receptor antagonist activity;