



Anti-JAG1 polyclonal antibody [Biotin] (DPABY-705)

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

PRODUCT INFORMATION

Antigen Description	Mammalian Jagged proteins are homologs of the Drosophila Notch ligand, Serrate, and together with Delta-like proteins, constitute ligands for the mammalian Notch proteins. Jagged 1 and 2 are 180 kDa and 150 kDa type I transmembrane glycoproteins, respectively, that possess extracellular DSL (delta, serrate, lag-2 consensus sequence) domains necessary for binding to Notch receptors, along with 15-16 calcium-binding EGF-like repeats which modulate the binding affinity. Jagged-Notch signaling specifies cell fate, regulates pattern formation, defines boundaries between different cell types, and modulates cell proliferation and differentiation, especially during hematopoiesis, myogenesis, neurogenesis and development of the vasculature. Since both the ligands and receptors are transmembrane proteins, direct cell-cell interactions are thought to be required for functional Notch signaling.
Specificity	Detects rat Jagged1 in ELISAs and Western blots. In sandwich ELISAs, approximately 14% cross-reactivity with recombinant human (rh) Jagged 1 is observed, and less than 0.3% cross-reactivity with rhJagged 2, recombinant mouse Jagged 2, recombinant rat (rr) Notch, and rrNotch 2 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat Jagged 1. Ser32-Asp1068 (Gly57-Arg59 del, Asp63Thr, Arg64Leu, and Val-Arg-Pro-Tyr ins before Lys69) Accession Number Q63722
Isotype	IgG
Source/Host	Goat
Species Reactivity	Rat
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	Jag1 jagged 1 [Rattus norvegicus (Norway rat)]
Official Symbol	JAG1
Synonyms	JAG1; jagged 1; protein jagged-1;
Entrez Gene ID	29146
Protein Refseq	NP_062020
UniProt ID	Q63722
Chromosome Location	3q36
Pathway	Delta-Notch Signaling Pathway; Notch Signaling Pathway; Notch signaling pathway;
Function	Notch binding; calcium ion binding; protein binding;