



Anti-JAG1 polyclonal antibody (DPABY-305)

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

PRODUCT INFORMATION

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| 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 15% cross-reactivity with recombinant human (rh) Jagged 1 is observed, and less than 0.3% cross-reactivity with rhJagged 2 and recombinant mouse Jagged 2 is observed. |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant rat Jagged1. 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 | Unconjugated |
| Applications | Western Blot, Flow Cytometry, ELISA Capture (Matched Pair), Blockade of Receptor-ligand Interaction |
| Format | Liquid |

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| 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, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

GENE INFORMATION

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| 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; |