

# Recombinant Rat Jag1 Protein, His-tagged

**Cat. No.** Jag1-1705R    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat Jag1 Protein (Ser826-Cys1084) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | Ser826-Cys1084                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | Enables Notch binding activity and receptor ligand activity. Involved in several processes, including animal organ regeneration; inner ear auditory receptor cell differentiation; and positive regulation of cardiac epithelial to mesenchymal transition. Located in plasma membrane. Human ortholog(s) of this gene implicated in Alagille syndrome; congenital heart disease; multiple sclerosis; and tetralogy of Fallot. Orthologous to human JAG1 (jagged canonical Notch ligand 1). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 31.9 kDa<br>Accurate Molecular Mass: 32 kDa                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | > 97%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                          |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                            |

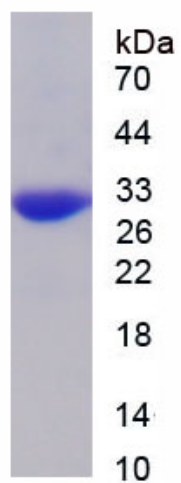
## GENE INFORMATION

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Gene Name</b>       | Jag1 jagged 1 [ <i>Rattus norvegicus</i> (Norway rat) ] |
| <b>Official Symbol</b> | Jag1                                                    |
| <b>Synonyms</b>        | JAG1; jagged 1; protein jagged-1;                       |
| <b>Gene ID</b>         | 29146                                                   |
| <b>mRNA Refseq</b>     | NM_019147                                               |
| <b>Protein Refseq</b>  | NP_062020                                               |
| <b>UniProt ID</b>      | Q63722                                                  |

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