

# Recombinant Full Length Human JAG1 Protein, C-Flag-tagged

**Cat. No.** JAG1-1115HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human JAG1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | The jagged 1 protein encoded by JAG1 is the human homolog of the Drosophila jagged protein. Human jagged 1 is the ligand for the receptor notch 1, the latter is involved in signaling processes. Mutations that alter the jagged 1 protein cause Alagille syndrome. Jagged 1 signalling through notch 1 has also been shown to play a role in hematopoiesis.                                                                                                                                              |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 133.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | <p> MRSRTRGRSGRPLSLLLALLCALRAKVCASGQFELEILSMQNVNGELQNGNCCG<br/> GARNPGDRKCTRDE CDTYFKVCLKEYQSRVTAGGPCSFGSGSTPVIGGNTFNLKA<br/> SRGNDRNRIVLPFSFAWPRSYTLLVEAWD SSNDTVQPDSIIKASHSGMINPSRQW<br/> QTLKQNTGVAHFEYQIRVTCDDYYYGFGCNKFCRPRDDFFGHY ACDQNGNKTCM<br/> EGWMGPECNRAICRQGCSPKHGSKLPGDCRCQYGWQGLYCDKCIPHPGCVHGI<br/> CNEPW QCLCETNWGGQLCDKDLNYCGTHQPCLNGGTCSNTGPDKYQCSCPEGY<br/> SGPNCEIAEHACLSDPCHNRGS CKETSLGFECESPGWTGPTCSTNIDDCSPNNC<br/> SHGGTCQDLVNGFKVCVPPQWTGKTCQLDANECEAKP CVNAKSCKNLIASYYCDC </p> |

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LPGWMGQNCDININDCLGQCQNDASCRDLVNGYRCICPPGYAGDHCERDIDE CAS  
 NPCLNGGHCQNEINRFQCLCPTGFSGNLCQLDIDYCEPNPCQNGAQCYNRASYF  
 CKCPEDYEGKNC SHLKDHCRTPCEVIDSCTVAMASNDTPEGVRYISSNVCGPHG  
 KCKSQSGGKFTCDCNKGFTGTYPHENI NDCESNPCRNGGTCTIDGVNSYKICSDG  
 WEGAYCETNINDCSQNPCHNGGTCTRDVNDFYCDCKNGWKWK TCHSRDSQCDE  
 ATCNNGGTCYDEGDAFKCMCPGGWEGTTCNIARNSSCLPNPCHNGGTCTVNGES  
 FTCVC KEGWEGPICAQNTNDCSPHPCYNSGTCVDGDNWYRCECAPGFAGPDCRI  
 NINECQSSPCAFGATCVDEIN GYRCVCPGPHSGAKCQEVSGRPCITMGSVIRDGAK  
 WDDDCNTCQCLNGRIACSKVWCGPRPCLLHKHSE CPSGQSCIPILDDQCFVHPC  
 TGVGECSRSSLQPVKTKCTSDSYQDNCANITFTFNKEMMSPLTTEHIC SELRNL  
 NILKNVSAEYSIYIACEPSPSANNEIHVAISAEDIRDDGNPIKEITDKIIDLVSKRDGNSS  
 LIA AVAEVRVQRRPLKNRTDFLVPLLSSVLTVAWICCLVTAIFYWCLRKRKPGSHTH  
 SASEDNTTNNVREQLN QIKNPIEKHGANTVPIKDYENKNSKMSKIRTHNSEVEEDDM  
 DKHQKARFAKQPAYTLVDREEKPPNGTL  
 TKHPNWTNKQDNRDLESAQSLNRMEYIVTRTRPLEQKLISEEDLAANDILDYKDDDD  
 KV

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Druggable Genome, ES Cell Differentiation/IPS, Transmembrane                                                                                  |

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|                         |                         |
|-------------------------|-------------------------|
| <b>Protein Pathways</b> | Notch signaling pathway |
|-------------------------|-------------------------|

|                    |         |
|--------------------|---------|
| <b>Full Length</b> | Full L. |
|--------------------|---------|

## GENE INFORMATION

|                  |                                                               |
|------------------|---------------------------------------------------------------|
| <b>Gene Name</b> | JAG1 jagged canonical Notch ligand 1 [ Homo sapiens (human) ] |
|------------------|---------------------------------------------------------------|

|                        |      |
|------------------------|------|
| <b>Official Symbol</b> | JAG1 |
|------------------------|------|

|                 |                                                      |
|-----------------|------------------------------------------------------|
| <b>Synonyms</b> | AGS; AHD; AWS; HJ1; AGS1; DCHE; CD339; JAGL1; CMT2HH |
|-----------------|------------------------------------------------------|

|                |     |
|----------------|-----|
| <b>Gene ID</b> | 182 |
|----------------|-----|

|                    |             |
|--------------------|-------------|
| <b>mRNA Refseq</b> | NM_000214.3 |
|--------------------|-------------|

|                       |             |
|-----------------------|-------------|
| <b>Protein Refseq</b> | NP_000205.1 |
|-----------------------|-------------|

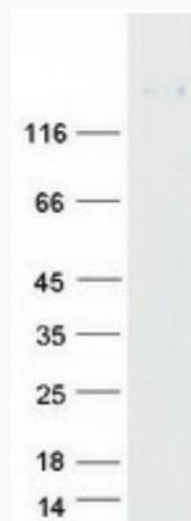
|            |        |
|------------|--------|
| <b>MIM</b> | 601920 |
|------------|--------|

|                   |        |
|-------------------|--------|
| <b>UniProt ID</b> | P78504 |
|-------------------|--------|

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Coomassie blue staining of purified JAG1 protein.

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