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Datasheet for ABIN3114168  
**JAG1 Protein (AA 34-1218) (rho-1D4 tag)**

Overview

Quantity:	1 mg
Target:	JAG1
Protein Characteristics:	AA 34-1218
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This JAG1 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence: QFELEILSMQ NVNGELQNGN CCGGARNPGD RKCTRDECDT YFKVCLKEYQ SRVTAGGPCS  
FGSGSTPVIG GNTFNLKASR GNDRNRIVLP FSFAWPRSYT LLVEAWDSSN DTVQPDSIIE  
KASHSGMINP SRQWQTLKQN TGVAHFYEQI RVTCDYDYYG FGCNKFCRPR DDFFGHYACD  
QNGNKTCMEG WMGPECNRAI CRQGCSPKHG SCKLPGDCRC QYGWQGLYCD KCIPHPGCVH  
GICNEPWQCL CETNWGGQLC DKDLNYCGTH QPCLNGGTCS NTGPDKYQCS CPEGYSGPNC  
EIAEHACLSD PCHNRGSCKE TSLGFCECS PGWTGPTCST NIDDCSPNNC SHGGTCQDLV  
NGFKCVCPPQ WTGKTCQLDA NECEAKPCVN AKSCKNLIAS YYCDCLPGWM GQNCNDININD  
CLGQCQNDAS CRDLVNGYRC ICPPGYAGDH CERDIDECAS NPCLNGGHQCQ NEINRFQCLC  
PTGFSGNLCQ LDIDYCEPNP CQNGAQCYNR ASDYFCKCPE DYEGKNCSHL KDHCRTTPCE  
VIDSCTVAMA SNTDPEGVRY ISSNVCOPHG KCKSQSGGKF TCDCNKGFTG TYCHENINDC  
ESNPCRNGGT CIDGVNSYKC ICSDGWEGAY CETNINDCSQ NPCHNGGTCTR DLVNDFYCDC  
KNGWKGKTCH SRDSQCDEAT CNNGGTCYDE GDAFKCMCPG GWEGTTCNIA RNSSCLPNPC

HNGGTCVVNG ESFTCVCKEG WEGPICAQNT NDCSPHPCYN SGTCDVDGDNW YRCECAPGFA  
GPDCRININE CQSSPCAFGA TCVDEINGYR CVCPPGHSGA KCQEVSGRPC ITMGSVIPDG  
AKWDDDCNTC QCLNGRIACS KVWCGPRPCL LHKGHSECPS GQSCIPILDD QCFVHPCTGV  
GECRSSSLQP VKTKCTSDSY YQDNCANITF TFNKEMMSPG LTTEHICSEL RNLNILKNVS  
AEYSIYACE PSPSANNEIH VAISAEDIRD DGNPIKEITD KIIDLVSKRK GNSSLIAAVA EVRVQRRPLK  
NRTDFLVPLL SSVLTVAWIC CLVTAFYWCL RKRRKPGSHT HSASEDNTTN NVREQLNQIK  
NPIEKHGANT VPIKDYENKN SKMSKIRTHN SEVEEDMDK HQQKARFAKQ PAYTLVDREE  
KPPNGTPTKH PNWTNKQDNR DLESAQSLNR MEYIV

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human JAG1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protParam tool to determine the absorption coefficient of each protein.

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### Purification:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

1. Membrane proteins are fractionated by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.

## Product Details

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2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin-free.

Grade: Crystallography grade

## Target Details

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Target: JAG1

Alternative Name: JAG1 ([JAG1 Products](#))

Background: Ligand for multiple Notch receptors and involved in the mediation of Notch signaling. May be involved in cell-fate decisions during hematopoiesis. Seems to be involved in early and late stages of mammalian cardiovascular development. Inhibits myoblast differentiation (By similarity). Enhances fibroblast growth factor-induced angiogenesis (in vitro). {ECO:0000250, ECO:0000269|PubMed:18660822, ECO:0000269|PubMed:9462510}.

Molecular Weight: 131.5 kDa Including tag.

UniProt: [P78504](#)

Pathways: [Notch Signaling](#), [Stem Cell Maintenance](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

## Handling

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Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)