

Active Recombinant Mouse Jagged 2, Fc-tagged

Cat. No. Jag2-5666M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Jag2 protein was expressed in Murine myeloma cell line with the Fc part of Mouse IgG2A Glu98-Lys330 (C-terminus) and Mouse Jag2 Met27-Lys1084(N-terminus).
Species	Mouse
Source	Mammalian Cells
Protein Length	27-1084 a.a.
Description	Mouse Jag2 is a 150 kDa member of the Delta-Serrate-Lag-2 (DSL) family of ligands that activate LIN12/Notch proteins, and thereby regulate cell fate determinations during development. It is a type 1 transmembrane protein that is synthesized as a 1247 amino acid (aa) precursor. It contains a 23 aa signal sequence, a large, 1059 aa extracellular region, a 21 aa transmembrane region, and a short, 144 aa cytoplasmic region. The extracellular region contains four potential N-linked glycosylation sites, a DSL domain, 16 EGF-like repeats, many of which are also sites of calcium binding, and a cysteine-rich region just proximal to the transmembrane segment.
Form	Lyophilized from a 0.2 µm filtered solution in PBS and EDTA.
N-terminal Sequence	Met27
Molecular Weight	140.8 kDa (monomer)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Activity	Measured by the ability of immobilized protein to enhance BMP-2 induced alkaline phosphatase activity in C3H10T1/2 mouse cells. The ED50 for this effect is typically 0.3-1.2 µg/mL. Measured by its ability to bind rrNotch-1 in a functional ELISA.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	160-165 kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/mL in sterile PBS
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. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Jag2 jagged 2 [<i>Mus musculus</i>]
Official Symbol	Jag2
Synonyms	Jag2; jagged 2; sm; Serh; D12Ggc2e; mJagged2-1; protein jagged-2; syndactylism
Gene ID	16450
mRNA Refseq	NM_010588
Protein Refseq	NP_034718

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UniProt ID	Q9QYE5
Chromosome Location	12
Pathway	Delta-NotchSignaling Pathway; Notch Signaling Pathway; Notch receptor binds with aligand; Notch signaling pathway; Receptor-ligand binding initiates the secondproteolytic cleavage of Notch receptor; Signal Transduction; Signaling byNotch
Function	Notch binding;growth factor activity

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