

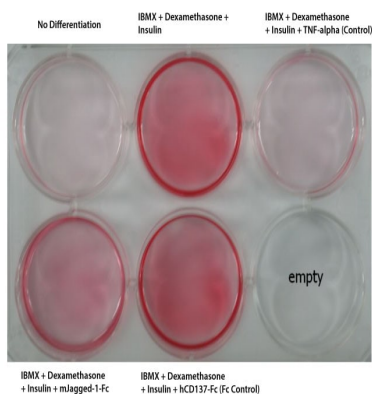
# Recombinant mouse Jagged1 protein (Fc Chimera Active) ab109346

**3 References**   **1 图像**

描述	
产品名称	重组小鼠Jagged1蛋白(Fc Chimera Active)
生物活性	Inhibits adipogenesis in NIH/3T3 cells.
纯度	> 90 % SDS-PAGE. ab109346 is lyophilised from a 0.2 µm filtered solution. Purified using affinity chromatography.
内毒素水平	< 0.010 Eu/µg
表达系统	HEK 293 cells
Accession	<b><u>Q9QXX0</u></b>
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Mouse
预测分子量	150 kDa including tags
氨基酸	1 to 1067
标签	Fc tag C-Terminus
额外的序列信息	Signal peptide and extracellular domain of mouse Jagged-1 (aa 1-1067) are fused at the C-terminus to the Fc portion of human IgG.
技术指标	
Our <b><u>Abpromise guarantee</u></b> covers the use of <b>ab109346</b> in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
应用	SDS-PAGE Functional Studies Inhibition Assay
形式	Lyophilized
制备和贮存	

<b>稳定性和存储</b>	<p>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.</p> <p>Constituent: PBS</p>
<b>复溶</b>	<p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p> <p>For 10µg size: reconstitute with 100µl sterile water. For 50µg size: reconstitute with 50µl sterile water</p>
<b>常规信息</b>	
<b>功能</b>	<p>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).</p>
<b>组织特异性</b>	<p>Widely expressed in adult and fetal tissues. In cervix epithelium expressed in undifferentiated subcolumnar reserve cells and squamous metaplasia. Expression is up-regulated in cervical squamous cell carcinoma. Expressed in bone marrow cell line HS-27a which supports the long-term maintenance of immature progenitor cells.</p>
<b>疾病相关</b>	<p>Defects in JAG1 are the cause of Alagille syndrome type 1 (ALGS1) [MIM:118450]. Alagille syndrome is an autosomal dominant multisystem disorder defined clinically by hepatic bile duct paucity and cholestasis in association with cardiac, skeletal, and ophthalmologic manifestations. There are characteristic facial features and less frequent clinical involvement of the renal and vascular systems.</p> <p>Defects in JAG1 are a cause of tetralogy of Fallot (TOF) [MIM:187500]. TOF is a congenital heart anomaly which consists of pulmonary stenosis, ventricular septal defect, dextroposition of the aorta (aorta is on the right side instead of the left) and hypertrophy of the right ventricle. This condition results in a blue baby at birth due to inadequate oxygenation. Surgical correction is emergent.</p>
<b>序列相似性</b>	<p>Contains 1 DSL domain.</p> <p>Contains 15 EGF-like domains.</p>
<b>发展阶段</b>	<p>Expressed in 32-52 days embryos in the distal cardiac outflow tract and pulmonary artery, major arteries, portal vein, optic vesicle, otocyst, branchial arches, metanephros, pancreas, mesocardium, around the major bronchial branches, and in the neural tube.</p>
<b>细胞定位</b>	<p>Membrane.</p>

## 图片



Inhibition Assay - Recombinant mouse Jagged1 protein (Fc Chimera Active) (ab109346)

Differentiation of 3T3-L1 cells was performed by first growing cells to confluence (day 2) and then shifting them to differentiation medium after 48 h (day 0). The differentiation medium contained 1  $\mu$ M dexamethasone, 0.5 mM IBMX, and 15  $\mu$ g/ml of insulin. Differentiation medium lacking dexamethasone and IBMX and addition of mouse TNF-alpha (20mg/ml) were both used as a control. As a negative control hCD137-Fc was used. Medium was changed to growth medium containing only insulin (15  $\mu$ g/ml) after 48 h (day 2). Staining with Oil Red O was typically performed on day 7. Notch signaling was generated by immobilizing recombinant mouse Jagged-1-Fc on plates (Jagged-1 was coated on 12-well plate at 5  $\mu$ g/ml (1  $\mu$ g/ml should also work) overnight at 4°C). These plates (with or without Notch ligand) were then used to grow 3T3-L1 cells.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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