abcam

Product datasheet

Recombinant human Jagged1 protein (Fc Chimera Active) ab108575

2 References 2 图像

描述

产品名称	重组人Jagged1蛋白(Fc Chimera Active)
生物活性	Induction of HES in NIH/3T3 cells. Inhibition of adipogenesis in NIH/3T3 cells.
纯度	> 90 % SDS-PAGE. ab108575 is 0.2µm filtered
内毒素水平	< 0.100 Eu/µg
表达系统	HEK 293 cells
Accession	**P78504**
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
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 human Jagged-1 (aa 1-1067) are fused at the C-terminus to the Fc portion of human IgG1.

技术指标

Our **Abpromise guarantee** covers the use of **ab108575** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Functional Studies SDS-PAGE
形式	Liquid
补充说明	Working aliquots are stable for up to 3 months when stored at -20°C. Inhibits adipogenesis of mesenchymal stem cells (MSCs). Induces Hes-1 in 3T3L-1 cells.

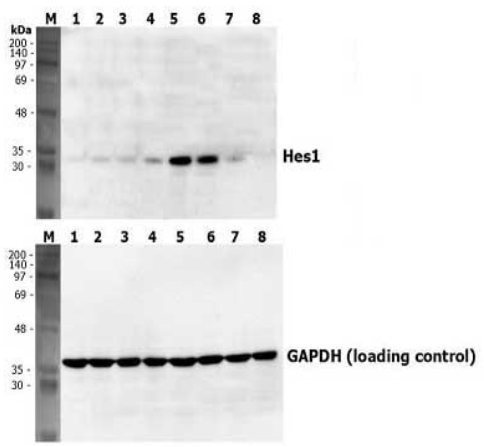
制备和贮存

稳定性和存储	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Constituent: PBS 0.2μm-filtered This product is an active protein and may elicit a biological response in vivo, handle with caution.

常规信息

功能	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).
组织特异性	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.
疾病相关	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. 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.
序列相似性	Contains 1 DSL domain. Contains 15 EGF-like domains.
发展阶段	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.
细胞定位	Membrane.

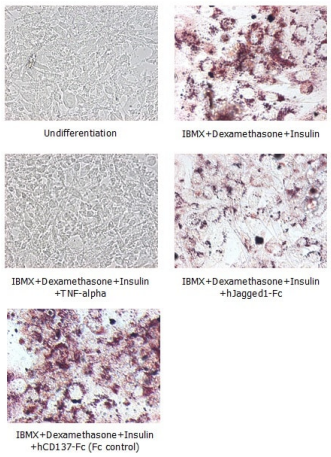
图片



Western blot - Recombinant human Jagged1 protein (Fc Chimera Active) (ab108575)

Induction of Hes-1 with the treatment of recombinant Human Jagged1-Fc (ab108575).
A mouse preadpipocyte cell line, 3T3L1, was stimulated with 5µg/ml of ab108575 as in indicated time points and each cell lysate was prepared and subjected to western blot by using anti-mouse Hes1 or GAPDH.

M: Marker
Lane 1: ab108575, 0 min
Lane 2: ab108575, 10 min
Lane 3: ab108575, 30 min
Lane 4: ab108575, 1 hr
Lane 5: ab108575, 2 hr
Lane 6: ab108575, 4 hr
Lane 7: ab108575, 8 hr
Lane 8: ab108575, 24 hr



Functional Studies - Recombinant human Jagged1 protein (Fc Chimera Active) (ab108575)

NIH/3T3 cells were maintained in DMEM supplemented with 10% FBS and penicillin-streptomycin.

When the cells reached confluence, adipogenesis was initiated by adding IBMX, Dexamethasone, and insulin to 0.5mM, 1µM, and 10µg/ml, respectively and continued for 2 days (day 0).

The medium was replaced every 2 days with new medium containing insulin in the presence or absence of 5µg/ml of human Jagged1-Fc (ab108575) and human CD137-Fc as a control-Fc. Staining with Oil Red O was typically performed on day 7

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