

Recombinant human Jagged1 protein (Fc Chimera Active) ab108575

[2 References](#) [画像数 2](#)

製品の詳細

製品名	Recombinant human Jagged1 protein (Fc Chimera Active)
生理活性	Induction of HES in NIH/3T3 cells. Inhibition of adipogenesis in NIH/3T3 cells.
精製度	> 90 % SDS-PAGE. ab108575 is 0.2µm filtered
エンドトキシン・レベル	< 0.100 Eu/µg
発現系	HEK 293 cells
アクセッション番号	<u>P78504</u>
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Human
予測される分子量	150 kDa including tags
領域	1 to 1067
タグ	Fc tag C-Terminus
配列の追加情報	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.

特性

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.

アプリケーション	Functional Studies SDS-PAGE
製品の状態	Liquid
備考	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.

前処理および保存

保存方法および安定性

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.

関連情報

機能

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).

組織特異性

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.

関連疾患

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.

配列類似性

Contains 1 DSL domain.

Contains 15 EGF-like domains.

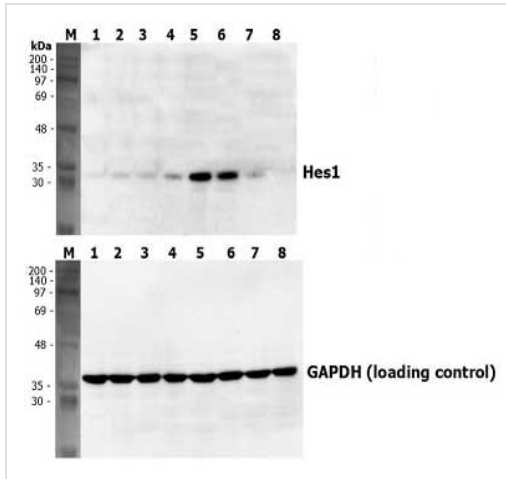
発生段階

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.

細胞内局在

Membrane.

画像



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 preadipocyte 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

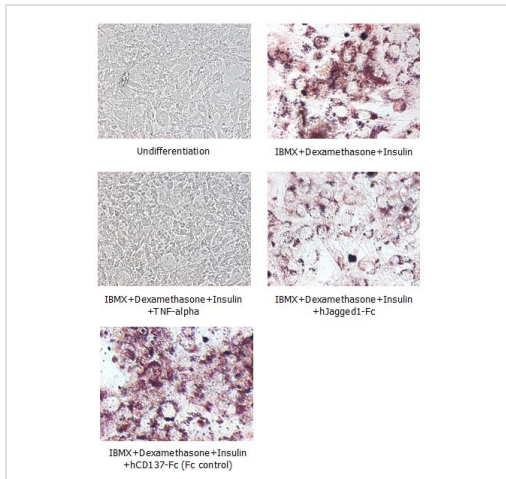
Lane 4: ab108575, 1 hr

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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