abcam

Product datasheet

Human Jagged 1 peptide ab94375

1 References 1 Image

Description

Product name Human Jagged1 peptide

Purity > 70 % HPLC.

70 - 90% by HPLC

Accession P78504

Animal free No

Nature Synthetic

Species Human

Specifications

Our **Abpromise guarantee** covers the use of **ab94375** in the following tested applications.

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

Applications Blocking - Blocking peptide for Anti-Jagged1 antibody (ab85763)

Form Liquid

Additional notes - First try to dissolve a small amount of peptide in either water or buffer. The more charged

residues on a peptide, the more soluble it is in aqueous solutions.

- If the peptide doesn't dissolve try an organic solvent e.g. DMSO, then dilute using water or

buffer.

- Consider that any solvent used must be compatible with your assay. If a peptide does not

dissolve and you need to recover it, lyophilise to remove the solvent.

- Gentle warming and sonication can effectively aid peptide solubilisation. If the solution is

cloudy or has gelled the peptide may be in suspension rather than solubilised.

- Peptides containing cysteine are easily oxidised, so should be prepared in solution just prior

to use.

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw

cycles.

Information available upon request.

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General Info

Function 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).

Widely expressed in adult and fetal tissues. In cervix epithelium expressed in undifferentiated Tissue specificity

> 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.

Involvement in disease 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.

Sequence similarities Contains 1 DSL domain.

Contains 15 EGF-like domains.

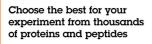
Developmental stage Expressed in 32-52 days embryos in the distal cardiac outflow tract and pulmonary artery, major

arteries, portal vein, optic vesicle, otocyst, branchial arches, metanephros, pancreas,

mesocardium, around the major bronchial branches, and in the neural tube.

Cellular localization Membrane.

Images





Reinforce the validity of your results with protein controls



Validate specific, reliable reagents with blocking peptides



Keep working on targets without specific antibodies with fusion-tagged proteins



Get consistent, reproducible results with premium

bioactive proteins

Human Jagged1 peptide (ab94375)

To learn more about our protein and peptide range click **here**.

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