abcam

Product datasheet

Anti-Jagged1 antibody [EPR4290] ab109536

敲除验证 重组 RabMAb

4 Abreviews 52 References 5 图像

概述

产品名称	Anti-Jagged1**抗体**[EPR4290]
描述	**兔单克隆抗体**[EPR4290] to Jagged1
宿主	Rabbit
经测试应用	**适用于:** WB **不适用于:** ICC/IF or IHC-P
种属反应性	**与反应:** Human **预测可用于:** Mouse, Rat
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HepG2 and HUVEC whole cell lysate, NIH:OVCAR-3 cell lysate.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20ºC.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 59% PBS, 0.05% BSA
纯度	Protein A purified
克隆	**单克隆**
克隆编号	EPR4290
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab109536于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	⭐⭐⭐⭐⭐ (2)	1/1000 - 1/10000. Predicted molecular weight: 134 kDa.

应用说明 Is unsuitable for ICC/IF or IHC-P.

靶标

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.

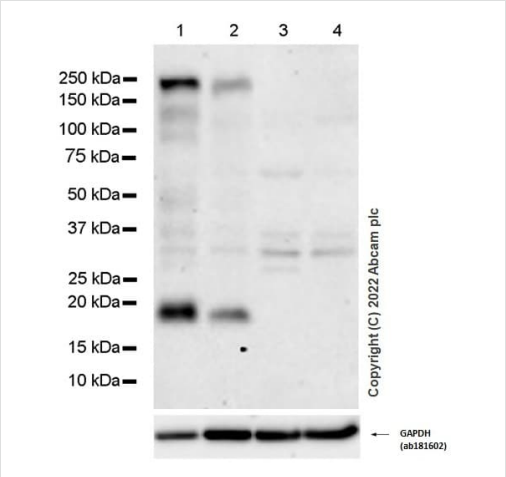
疾病相关 Defects in JAG1 are the cause of Alagille syndrome type 1 (ALGS1) [MIM:118450]. Alagille syndrome is an autosomal dominant multisystem disorder defined clinically by hepatic bile duct paucity and cholestasis in association with cardiac, skeletal, and ophthalmologic manifestations. There are characteristic 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 - Anti-Jagged1 antibody [EPR4290] (ab109536)

All lanes : Anti-Jagged1 antibody [EPR4290] (ab109536) at 1/10000 dilution

Lane 1 : HepG2 (human hepatocellular carcinoma epithelial cell), whole cell lysate
Lane 2 : HUVEC (human umbilical vein endothelial cell), whole cell lysate
Lane 3 : Jurkat (human T cell leukemia T lymphocyte), whole cell lysate
Lane 4 : MOLT-4 (human lymphoblastic leukemia T lymphoblast), whole cell lysate

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 134 kDa
Observed band size: 200, 23 kDa

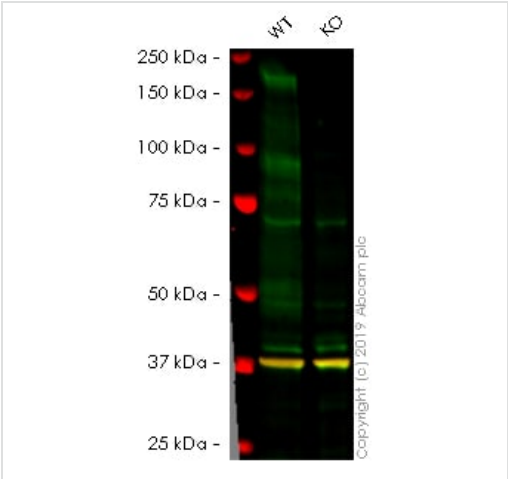
Exposure time: 180 seconds

Blocking buffer and concentration: 5% NFDM/TBST
Diluting buffer and concentration: 5% NFDM /TBST

Negative controls: Jurkat and MOLT-4 whole cell lysate (PMID: 30231940)

200-kDa full length and 23-kDa C-terminal JAG1 are observed. The molecular weights are consistent with what has been described in the literature (PMID: 30890522, 30890522).

This blot was developed using a high sensitivity ECL substrate.



Western blot - Anti-Jagged1 antibody [EPR4290] (ab109536)

All lanes : Anti-Jagged1 antibody [EPR4290] (ab109536) at 1/10000 dilution

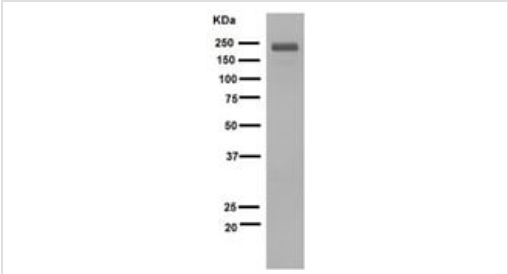
Lane 1 : Wild-type HAP1 whole cell lysate
Lane 2 : JAG1 knockout HAP1 whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 134 kDa
Observed band size: 200 kDa

Lanes 1 - 2: Merged signal (red and green). Green - ab109536 observed at 200 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab109536 was shown to recognize in wild-type HAP1 cells as signal was lost at the expected MW in JAG1 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and JAG1 knockout samples were subjected to SDS-PAGE. Ab109536 and **ab9484** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/10000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Jagged1 antibody [EPR4290] (ab109536)

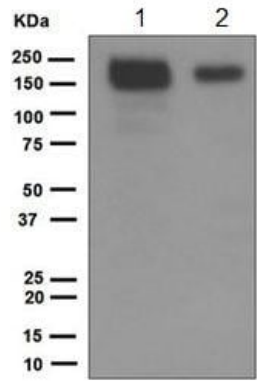
Anti-Jagged1 antibody [EPR4290] (ab109536) at 1/1000 dilution (Purified) + HepG2 at 10 µg

Secondary
HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 134 kDa
Observed band size: 200 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-Jagged1 antibody [EPR4290] (ab109536)

All lanes : Anti-Jagged1 antibody [EPR4290] (ab109536) at 1/10000 dilution (Unpurified)

Lane 1 : HepG2 cell lysate
Lane 2 : NIH:OVCAR-3 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP-labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 134 kDa
Observed band size: 200 kDa

Anti-Jagged1 antibody [EPR4290] (ab109536)

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you

- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors