

Product datasheet

Anti-Jagged1 antibody ab233101

4 Images

Overview

Product name	Anti-Jagged1 antibody
Description	Rabbit polyclonal to Jagged1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Human, Pig Predicted to work with: Rat 
Immunogen	Recombinant fragment (His-tag) corresponding to Human Jagged1 aa 836-1047. (Expressed in E.coli). Sequence: VDEINGYRCVCPPGHSGAKCQEVSGRPCITMGSVIPD GAKWDDDCNTCQC LNGRIACSKVWCGPRPCLLHKGHSECPGQSCIPILD DQCFVHPCTGVGE CRSSSLQPVKTKCTSDSYQDNCANITFTFNKEMMSP GLTTEHICSELRN LNILKNVSAEYSIMACEPSPSANNEIHVAISAEDIRDDGN PIKEITDKIIDLVSKRDGNSS Database link: P78504  Run BLAST with  Run BLAST with
Positive control	WB: Recombinant human Jagged1 protein; HeLa and HEK-203T cell lysates; Pig and mouse liver lysates. IHC-P: Human colon tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol
Purity	Immunogen affinity purified

Purification notes	ab233101 was purified by antigen-specific affinity chromatography followed by Protein A affinity chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab233101** in the following tested applications.

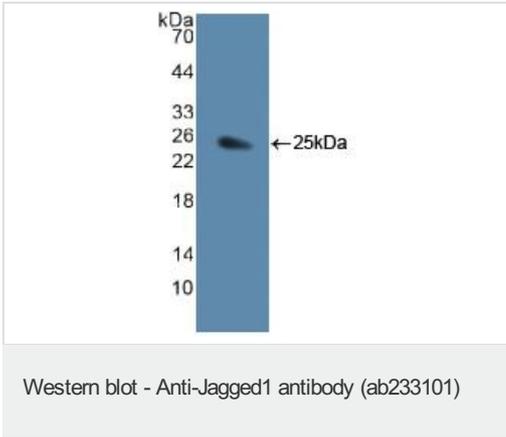
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 134 kDa.
IHC-P		Use a concentration of 5 - 20 µg/ml.

Target

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).
Tissue specificity	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.
Involvement in disease	<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>
Sequence similarities	<p>Contains 1 DSL domain.</p> <p>Contains 15 EGF-like domains.</p>
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

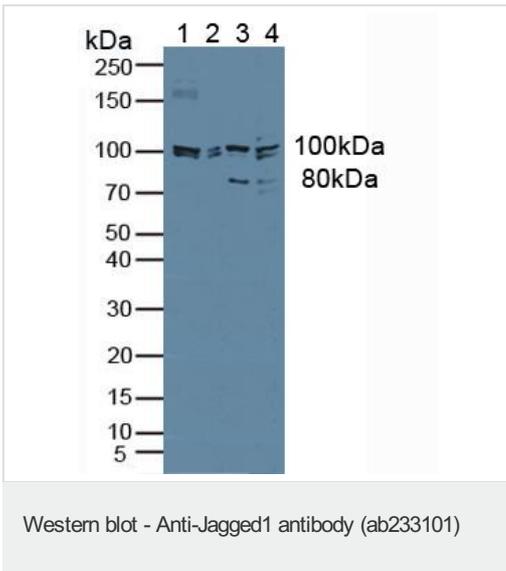


Anti-Jagged1 antibody (ab233101) at 3 µg/ml + Recombinant human Jagged1 protein

Secondary

HRP-Linked Guinea pig Anti-Rabbit at 1/2000 dilution

Predicted band size: 134 kDa



All lanes : Anti-Jagged1 antibody (ab233101) at 3 µg/ml

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

Lane 2 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate

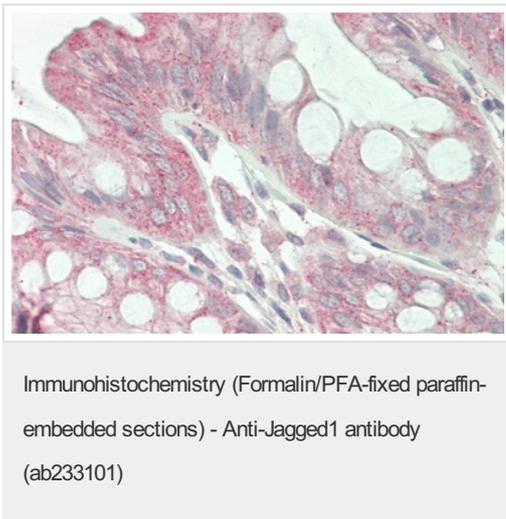
Lane 3 : Pig liver lysate

Lane 4 : Mouse liver lysate

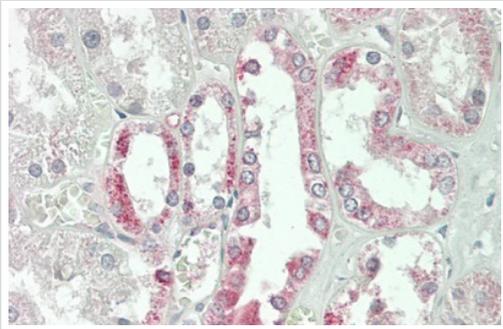
Secondary

All lanes : HRP-Linked Guinea pig anti-Rabbit at 1/2000 dilution

Predicted band size: 134 kDa



Paraffin-embedded human colon tissue stained for Jagged1 using ab233101 at 20 µg/ml in immunohistochemical analysis. AEC staining.



Paraffin-embedded human colon tissue stained for Jagged1 using ab233101 at 20 µg/ml in immunohistochemical analysis. AEC staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Jagged1 antibody (ab233101)

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