

Rabbit Jagged 1 Polyclonal Antibody | anti-JAG1 antibody

Anti-Jagged 1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254722	Rabbit	Mouse Predicted to React with: Human, Rat (Species predicted to react based on 100% sequence homology)	Immunofluorescence, Immunocytochemistry, Immunohistochemistry

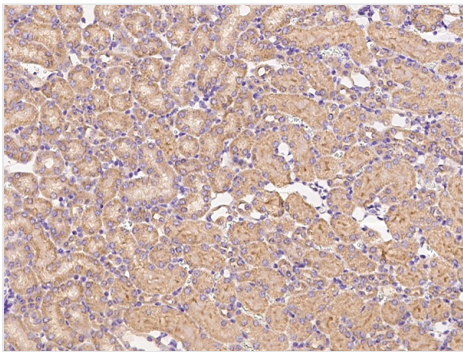
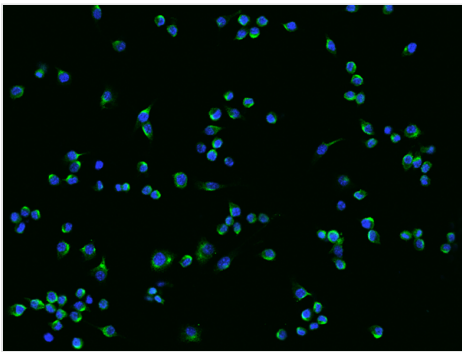
PRODUCT SYNONYMS

Jagged 1; Polyclonal Antibody; Anti-Jagged 1 Antibody; Rabbit Polyclonal; Jagged 1/Jag1 Antibody; Rabbit PAb; Antigen Affinity Purified; jagged 1; Anti-ABE2 Antibody; Anti-Gsfabe2 Antibody; Anti-Htu Antibody; Anti-Ozz Antibody; Anti-Ser-1 Antibody; anti-JAG1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse Predicted to React with: Human, Rat (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Jagged 1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-JAG1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the C-terminus of the Mouse Jagged 1/Jag1
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Mouse Jagged 1/Jag1, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of Jag1 in RAW264.7 cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Mouse Jag1 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm and cell membrane.

IHC (Immunohistochemistry)
Immunochemical staining of mouse Jag1 in mouse kidney with rabbit polyclonal antibody at 1:200 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-JAG1 antibody	Protein Jagged 1, also known as JAG1, JAGL1, and CD339, is a single-pass type I membrane protein that contains 1 DSL domain and 15 EGF-like domains. JAG1/Jagged 1 is widely expressed in adult and fetal tissues. The expression of JAG1/Jagged 1 is up-regulated in cervical squamous cell carcinoma. JAG1/Jagged 1 is also expressed in bone marrow cell line HS-27a which supports the long-term maintenance of immature progenitor cells. JAG1/Jagged 1 is a ligand for multiple Notch receptors. It is involved in the mediation of Notch signaling. JAG1/Jagged 1 may be involved in cell-fate decisions during hematopoiesis. JAG1/Jagged 1 seems to be involved in the early and late stages of mammalian cardiovascular development. It inhibits myoblast differentiation and enhances fibroblast growth factor-induced angiogenesis. Defects in JAG1/Jagged 1 are the cause of Alagille syndrome type 1 (ALGS1). 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. Defects in JAG1/Jagged 1 are also a cause of tetralogy of Fallot (TOF). TOF is a congenital heart anomaly that 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.
Product Categories/Family for anti-JAG1 antibody	Notch Pathway
References	Oda T. et al., 1997, Nat. Genet. 16:235-242. Krantz I.D. et al., 1998, Am. J. Hum. Genet. 62:1361-1369. Li L. et al., 1998, Immunity. 8:43-55. Jones E.A. et al., 2000, J. Med. Genet. 37: 658-662. Roepke A. et al., 2003, Hum. Mutat. 21:100-100. Jurkiewicz D. et al., 2005, Hum. Mutat. 25:321-321. Warthen D.M. et al., 2006, Hum. Mutat. 27:436-443.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7305197
NCBI GeneID	16449
NCBI Accession #	NP_038850.1
NCBI GenBank Nucleotide #	NM_013822.5
UniProt Accession #	Q9QXX0
Molecular Weight	134,164 Da
NCBI Official Full Name	protein jagged-1
NCBI Official Synonym Full Names	jagged 1
NCBI Official Symbol	Jag1

NCBI Official Synonym Symbols	Htu; Ozz; ABE2; Ser-1; Gsfabe2
NCBI Protein Information	protein jagged-1
UniProt Protein Name	Protein jagged-1
UniProt Gene Name	Jag1
UniProt Synonym Gene Names	Jagged1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/jagged-1-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/254722>