abcam

ab273578

Anti-Jagged1 antibody [EPR23647-75] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR23647-75
Purification technique	Affinity purification Protein A
Concentration	0.998 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-

Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human, Mouse, Rat
Dilution info	-

Notes	-

Target data

See full target information JAG1

Function	Ligand for multiple Notch receptors and involved in the mediation of Notch signaling (PubMed:18660822, PubMed:20437614). May be involved in cell-fate decisions during hematopoiesis (PubMed:9462510). 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).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab273578 is the carrier-free version of ab273571.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

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 batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Jagged1 also known as JAG1 or Jagged 1 protein is a transmembrane protein involved in the Notch signaling pathway. It has a mass of approximately 150 kDa and is expressed in various tissues including the cardiovascular system liver and mammary glands. Not only does it play a role in cell-cell communication but it also engages in controlling cell differentiation proliferation and apoptosis. Additionally researchers studying its molecular nature frequently employ Jagged1 ELISA kits to measure its expression and activity levels.
Biological function summary	The Jagged1 protein acts as a ligand binding to Notch receptors forming a large complex with other critical proteins within the pathway. This interaction initiates the signal transduction necessary for various cellular processes reinforcing the influence Jagged1 has on development and tissue homeostasis. Its role as a ligand amplifies its importance and scientists often use Jagged1 ELISA and Jag1 ELISA assays to explore these biological interactions further.
Pathways	Research shows that Jagged1 is an integral component of the Notch signaling and cardiovascular development pathways. It binds to Notch1 and Notch2 receptors facilitating important steps in both pathways which are related to embryonic development and adult tissue maintenance. This Notch-Jagged1 interaction also connects to Delta-like ligands creating an intricate network of proteins and pathways critical for a wide spectrum of cellular functions.
Associated diseases and disorders	Jagged1 exhibits significant connections to Alagille syndrome and some cancers. Mutations in Jagged1 or disrupted interactions with Notch receptors often lead to the developmental defects characteristic of Alagille syndrome where both Jagged1 and Notch2 play significant roles. Additionally aberrant activation of the Notch signaling pathway involving Jagged1 has links to tumorigenesis in certain cancers opining avenues for potential therapeutic interventions against these diseases.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

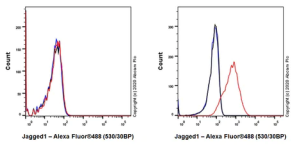
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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1 product image



Flow Cytometry - Anti-Jagged1 antibody [EPR23647-75] - BSA and Azide free (ab273578)

Jagged1 Flow Cytometry staining using rabbit Anti-Jagged1 antibody

Flow cytometric analysis of Jurkat (Human T cell leukemia T lymphocyte, Left) / HepG2 (Human hepatocellular carcinoma epithelial cell, Right) cells labelling Jagged1 with ab273571 at 1/600 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) isotype control (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.
Negative control: Jurkat (PMID: 30231940).

Gated on viable cells.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab273571).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.