Hamster anti-Human, Rat JAGGED2 Monoclonal Antibody | anti-JAGGED2 antibody

HAMSTER ANTI MOUSE JAGGED2

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA49799	**Hamster**	**Human, Rat**	**Flow Cytometry, Functional Assay, Immunohistochemistry**

PRODUCT SYNONYMS

JAGGED2; Monoclonal Antibody; HAMSTER ANTI MOUSE JAGGED2; anti-JAGGED2 antibody

PRODUCT SPECIFICATIONS

Host	Hamster
Reactivity	Human, Rat
Clonality	Monoclonal
Isotype	IgG
Clone Number	HMJ2-1
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0mg/ml (varies by lot)
Sequence Length	1238
Applicable Applications for anti-JAGGED2 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Perservative Stabilisers	0.09% Sodium Azide (NaN3) Preparation
Immunogen	Jagged2-expressing CHO cells. Histology Positive Control Tissue
Target Species	Mouse
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.

IMAGES

Application Data
Mouse Jagged 2 transfected cells stained with Hamster anti Mouse Jagged 2

Application Data
Paraffin embedded human testis stained with Hamster anti Mouse Jagged 2 followed by Goat anti Hamster IgG:HRP

ADDITIONAL INFORMATION

Related Product Information for anti-JAGGED2 antibody	Hamster anti Mouse JAGGED2 antibody, clone HMJ2-1 specifically recognizes Jagged2, one of the five major ligands of the Notch signaling pathway, which is activated through the binding of specific ligands to the Notch receptors Notch 1-4. The Notch signaling pathway is an evolutionarily conserved pathway in multi-cellular organisms, which is vital for cell-cell communication, important during fundamental developmental and physiological processes, including regulation of cell fate decisions during neuronal, cardiac and endocrine development, stem cell hematopoiesis, thymic T-cell development, and both tumor progression and suppression. Ligation of Notch receptors by their specific ligands, Jagged1 (CD339), Jagged2, Delta-like protein 1 (DLL1), DLL3 and DLL4, on physically adjacent signal receiving cells, induces proteolysis of the receptors by ADAM-family metalloproteases and the gamma-secretase complex, within the transmembrane domain, releasing the Notch intracellular domain (NICD) to translocate to the nucleus. Subsequent signal transduction then occurs through either the CSL-NICD-Mastermind complex cascade (canonical pathway), or NF-kappaB-NICD and CSL-NICD-Deltex complex signaling cascades (non-canonical pathway). The canonical pathway inhibits the differentiation of stem cells or progenitor cells, whilst the non-canonical pathway promotes differentiation. Jagged2 is expressed by stromal and thymic lymphoid cells, and by splenic macrophages and dendritic cells (DCs), and plays a vital role during limb, craniofacial, tooth, and thymic development, as well as being implicated in the maintenance and function of neuronal cells in both the central (CNS) and enteric (gastrointestinal) nervous system. Studies have shown that the anti-tumor cytolytic activity of natural killer (NK) cells can be enhanced by Jagged2 stimulation, and that the vital role which DC Jagged2 expression plays in DC-mediated NK cell activation, may

NCBI AND UNIPROT INFORMATION

NCBI GI #	21704277
NCBI GeneID	3714
NCBI Accession #	NP_002217.3
NCBI GenBank Nucleotide #	NM_002226.4
Molecular Weight	129,235 Da
NCBI Official Full Name	protein jagged-2 isoform a
NCBI Official Synonym Full Names	jagged 2
NCBI Official Symbol	JAG2
NCBI Official Synonym Symbols	HJ2; SER2
NCBI Protein Information	protein jagged-2
UniProt Protein Name	Protein jagged-2
UniProt Gene Name	**JAG2**
UniProt Synonym Gene Names	Jagged2; hJ2
UniProt Entry Name	JAG2_HUMAN

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/monoclonal/jagged2-antibody-clone-hmj2-1-flow-cytometry-immunohistochemistry-elisa/49799