JAG1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	JAG1, Monoclonal Antibody
Full Product Name	JAG1 (Jagged 1 (Alagille Syndrome), AGS, AHD, AWS, CD339, HJ1, JAGL1, MGC104644) (MaxLight 405)
Product Gene Name	anti-JAG1 antibody
Product Synonym Names	Jagged 1 (Alagille Syndrome); AGS; AHD; AWS; CD339; HJ1; JAGL1; MGC104644
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	3C10
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified
Specificity	Recognizes JAG1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery o centrifuge the original vial prior to removing the cap.
Molecular Weight	Predicted: 134 kDa Observed: 130 kDa
OMIM	phenotype 601920
3D Structure	ModBase 3D Structure for P78504
Immunogen	JAG1 (NP_000205, 905aa-1014aa) full length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	HKGHSECPSGQSCIPILDDQCFVHPCTGVGECRSSSLQPVKTKCTSDSYYQDNCANITFTFNKEMMSPGLTTEHICSELRNLNILKNVSAEYSIYIACEPSP
Conjugate	MaxLight405
Product Categories/Family for anti-JAG1 antibody	Antibodies; Notch Proteins
Applications Tested/Suitable for anti-JAG1 antibody	FLISA, Western Blot (WB)
Application Notes for anti-JAG1 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-JAG1 antibody	The jagged 1 protein encoded by JAG1 is the human homolog of the Drosophilia jagged protein. Human jagged 1 is the ligand for the receptor notch 1, human homolog of the Drosophilia jagged receptor notch. Mutations that alter the jagged 1 protein cause Alagille syndrome. Jagged 1 signalling throug has also been shown to play a role in hematopoiesis. [provided by RefSeq]
Other Notes	Small volumes of anti-JAG1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional may apply.
Searchable Terms for JAG1 purchase	MBS6196330 is an antibody targeting JAG1. Also known as JAG1 (Jagged 1 (Alagille Syndrome), AGS, AHD, AWS, CD339, HJ1, JAGL1, MGC10464 (MaxLight 405). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for JAG1. It may not necessarily be applicable to this product.

NCBI GI #	4557679
NCBI GeneID	182
NCBI Accession #	NP_000205
UniProt Primary Accession #	P78504
UniProt Secondary Accession #	O14902; O15122; Q15816; A0AV43; B4DYR1; E9PCF9
UniProt Related Accession #	P78504
GenBank Nucleotide #	NM_000214.2
NCBI Official Full Name	protein jagged-1
NCBI Official Synonym Full Names	jagged 1
NCBI Official Symbol	JAG1
NCBI Official Synonym Symbols	AGS; AHD; AWS; HJ1; CD339; JAGL1
UniProt Protein Name	Protein jagged-1
UniProt Synonym Protein Names	CD_antigen: CD339
Protein Family	Protein jagged
UniProt Gene Name	JAG1
UniProt Synonym Gene Names	JAGL1; Jagged1; hJ1
UniProt Entry Name	JAG1_HUMAN
NCBI Protein Information	protein jagged-1

UniProt Comments for JAG1	JAG1: 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. Enhances fibroblast growth factor-induced angiogenesis (in vitro). Interacts with NOTCH2 and NOTCH3. Interacts with NOTCH1 (in the presence of calcium ions). 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. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 20p12.1-p11.23 Cellular Component: membrane; apical part of cell; integral to plasma membrane; extracellular region; plasma membrane Molecular Function: protein binding; growth factor activity; calcium ion binding; structural molecule activity; Notch binding Biological Process: endothelial cell differentiation; nervous system development; Notch signaling pathway; positive regulation of myeloid cell differentiation; T cell mediated immunity; Notch receptor processing; auditory receptor cell differentiation; cell fate determination; negative regulation of fat cell differentiation; regulation of cell migration; regulation of cell proliferation; keratinocyte differentiation; myoblast differentiation; positive regulation of osteoblast differentiation; negative regulation of neuron differentiation; response to muramyl dipeptide; morphogenesis of an epithelial sheet; positive regulation of transcription from RNA polymerase II promoter; hemopoiesis; blood vessel remodeling; angiogenesis; positive regulation of Notch signaling pathway Disease: Tetralogy Of Fallot; Alagille Syndrome 1
Research Articles on JAG1	**1.** High cytoplasmic Jagged1 expression is associated with laryngeal cancer.
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