



Jagged1 Monoclonal Antibody

Catalog No	YP-mAb-16027
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	JAG1
Immunogen	The antiserum was produced against synthesized peptide derived from the Internal region of human JAG1. AA range:981-1030
Specificity	Jagged1 Monoclonal Antibody detects endogenous levels of Jagged1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	JAG1;Jagged1;CD339;HJ1;Protein jagged-1;JAGL1
Observed Band	150-180kD
Calculated Molecular Weight	140kD
Cell Pathway	Membrane; Single-pass type I membrane protein.
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.
Function	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.;disease: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.,
disease: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

Background

The jagged 1 protein encoded by JAG1 is the human homolog of the Drosophila jagged protein. Human jagged 1 is the ligand for the receptor notch 1, the latter a human homolog of the Drosophila jagged receptor notch. Mutations that alter the jagged 1 protein cause Alagille syndrome. Jagged 1 signalling through notch 1 has also been shown to play a role in hematopoiesis. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images