

Jagged2 (C-17): sc-8157

BACKGROUND

The LIN-12/Notch family of transmembrane receptors is believed to play a central role in development by regulating cell fate decisions. Ligands for Notch include Jagged1, Jagged2 and Delta. Jagged is a membrane protein and can activate Notch and prevent myoblast differentiation by inhibiting the expression of muscle regulatory and structural genes. It is involved in mammalian cardiovascular development and in cell-fate decisions during hematopoiesis. Jagged is expressed in adult and fetal tissues, and the expression is up-regulated in cervical squamous cell carcinoma. Familial Tetralogy of Fallot, the most common form of complex congenital heart disease, is caused by a mutation in the JAG1 gene.

REFERENCES

1. Laborda, J., et al. 1993. *dlk*, a putative mammalian homeotic gene differentially expressed in small cell lung carcinomas and neuroendocrine tumor cell line. *J. Biol. Chem.* 268: 3817-3820.
2. Simpson, P. 1994. *The Notch receptors*. Austin, TX: R.G. Landes Company.
3. Valsecchi, C., et al. 1997. Jagged2: a putative Notch ligand expressed in the apical ectodermal ridge and in sites of epithelial-mesenchymal interactions. *Mech. Dev.* 69: 203-207.

CHROMOSOMAL LOCATION

Genetic locus: JAG2 (human) mapping to 14q32.33.

SOURCE

Jagged2 (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Jagged2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-8157 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Jagged2 (C-17) is recommended for detection of Jagged2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Jagged2 siRNA (h): sc-39672, Jagged2 shRNA Plasmid (h): sc-39672-SH and Jagged2 shRNA (h) Lentiviral Particles: sc-39672-V.

Molecular Weight of Jagged2: 150 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or Jurkat + GM-CSF cell lysate: sc-2279.

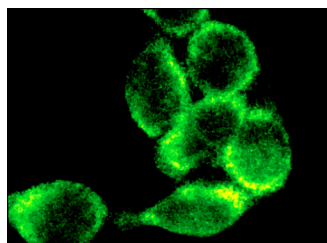
STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

DATA



Jagged2 (C-17): sc-8157. Immunofluorescence staining of methanol-fixed HeLa cells showing membrane localization.

SELECT PRODUCT CITATIONS

1. Bocchetta, M., et al. 2003. Notch 1 induction, a novel activity of SV40 required for growth of SV40-transformed human mesothelial cells. *Oncogene* 22: 81-89.
2. Sander, G.R., et al. 2003. Expression of Notch 1 and Jagged2 in the enteric nervous system. *J. Histochem. Cytochem.* 51: 969-972.
3. Michels, A.A., et al. 2004. Binding of the 7SK snRNA turns the HEXIM1 protein into a P-TEFb (Cdk9/cyclin T) inhibitor. *EMBO J.* 23: 2608-2819.
4. Massi, D., et al. 2006. Evidence for differential expression of notch receptors and their ligands in melanocytic nevi and cutaneous malignant melanoma. *Mod. Pathol.* 19: 246-254.
5. Ustunel, I., et al. 2008. The immunohistochemical localization of notch receptors and ligands in human articular cartilage, chondroprogenitor culture and ultrastructural characteristics of these progenitor cells. *Acta Histochem.* 110: 397-407.
6. Panelos, J., et al. 2008. Photoexposure discriminates Notch 1 expression in human cutaneous squamous cell carcinoma. *Mod. Pathol.* 21: 316-325.
7. Lage, K., et al. 2010. Dissecting spatio-temporal protein networks driving human heart development and related disorders. *Mol. Syst. Biol.* 6: 381.
8. Sahin, Z., et al. 2011. Distribution of Notch family proteins in intrauterine growth restriction and hypertension complicated human term placentas. *Acta Histochem.* 113: 270-276.
9. Harrison, H., et al. 2013. Oestrogen increases the activity of oestrogen receptor negative breast cancer stem cells through paracrine EGFR and Notch signalling. *Breast cancer Res.* 15: R21.


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Try **Jagged2 (4F10): sc-293433**, our highly recommended monoclonal alternative to Jagged2 (C-17).