**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. Expression of Jagged 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**


**CHROMOSOMAL LOCATION**

Genetic locus: JAG2 (human) mapping to 14q32.33; Jag2 (mouse) mapping to 12 F1.

**SOURCE**

Jagged2 (H-143) is a rabbit polyclonal antibody raised against amino acids 914-1056 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.

**APPLICATIONS**

Jagged2 (H-143) is recommended for detection of Jagged2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


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 (H-143) sc-5604. Western blot analysis of Jagged2 expression in untreated Jurkat (A) and GM-CSF-treated Jurkat (B) whole cell lysates.

Jagged2 (H-143) sc-5604. Immunoperoxidase staining of formalin fixed, paraffin-embedded human lung tissue showing cytoplasmic staining of macrophages and pneumocytes cells.

**SELECT PRODUCT CITATIONS**


Try **Jagged2 (4F10): sc-293433**, our highly recommended monoclonal alternative to Jagged2 (H-143).