



## Notch 2 (25-255): sc-4474 WB

### BACKGROUND

The LIN-12/Notch family of transmembrane receptors is believed to play a central role in development by regulating cell fate decisions. To date, four Notch homologs have been identified in mammals and have been designated Notch 1, Notch 2, Notch 3 and Notch 4. The Notch genes are expressed in a variety of tissues in both the embryonic and adult organism, suggesting that the genes are involved in multiple signaling pathways. The Notch proteins have been found to be overexpressed or rearranged in human tumors. Ligands for Notch include Jagged, Jagged2 and Delta. Jagged can activate Notch and prevent myoblast differentiation by inhibiting the expression of muscle regulatory and structural genes. Jagged2 is thought to be involved in the development of various tissues whose development is dependent upon epithelial-mesenchymal interactions. Normal Delta expression is restricted to the adrenal gland and placenta. Delta expression has also been found in neuroendocrine tumors such as neuroblastomas and pheochromocytomas.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: NOTCH2 (human) mapping to 1p13-p11; Notch2 (mouse) mapping to 3 F2.2.

### SOURCE

Notch 2 (25-255) is expressed in *E. coli* as a 53 kDa tagged fusion protein corresponding to amino acids 25-255 of Notch 2 of human origin.

### PRODUCT

Notch 2 (25-255) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

### APPLICATIONS

Notch 2 (25-255) is suitable as a Western blotting control for sc-5545.

### RESEARCH USE

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

### STORAGE

Store at -20°. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.