# NEUROMICS 🥒



Liquid. 100 ug in 100 ul (1

mg/ml) in PBS containing

0.02% sodium azide

### Notch1 **Data Sheet**

RA19069 Catalog Number:

Affinity Purified Antibody **Product Type:** 

**Species** Reactivity: Synthetic peptide representing the C

terminal region of the human NOTCH homolog 1 (NOTCH1) protein.

Immunohsitochemistry: 1:200-600

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Host:

Format:

Rabbit

Human; Rat

Storage: Maintain at +2-8°C for 3 months or at -20°C for longer periods. Stable for 1 year. Avoid

repeated freeze-thaw cycles.

Reference: Steppan C.M. et al. Proc Natl Acad Sci U S A 2001 Jan 16;98(2):502-6

# **Application Notes**

#### Description/Data:

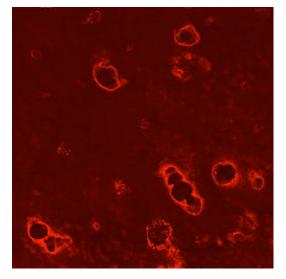
Immunogen Sequence:

Applications:

The Notch protein sits like a trigger penetrating the cell membrane, with part of it inside and part outside. Proteins when binding to the exterior part cause the release of a portion of the interior part, which typically then makes its way to the cell nucleus to alter gene expression. The Notch gene belongs to a family of epidermal growth factor (EGF) like homeotic genes, which encode transmembrane proteins with a variable number of cysteine rich EGF like repeats in the extracellular region. Four notch genes have been described in mammals: Notch1, Notch2, Notch3 and Notch4(Int3), which have been implicated in the differentiation of the nervous system and other structures. The EGF like proteins Delta and Serrate have been identified as ligands of Notch1.

Notch signaling is important in embryonic development promotes survival and proliferation of stem cells. This could have positive implications for functional recovery from stroke and Neurodegenerative diseases. Signaling is often repressed in many cancers, and faulty Notch signalling is implicated in many diseases including T-ALL (T-cell acute lymphoblastic leukemia), CADASIL (Cerebral Autosomal Dominant Arteriopathy with Sub-cortical Infarcts and Leukoencephalopathy), MS (Multiple Sclerosis), Tetralogy of Fallot, Alagille syndrome, and myriad other disease states.

Image: Notch1 staining of rat brain (cortex-10 micron cryostat sections). Working dilution is 1:200-1:600. Stained tissue was mounted under i-Brite Plus mounting media.



## FOR RESEARCH USE ONLY

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