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NOTCH3

Reactivity: Human Mouse Rat

Tested applications:WB IHC IF

Recommended Dilution:WB 1:200 - 1:1000 IHC 1:20 - 1:200 IF 1:20 - 1:200

Calculated MW:244kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human NOTCH3

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

t

Synonym:

CASIL; CADASIL;

Catalog #:A3115

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:4854

Isotype: IgG

Swiss Prot:Q9UM47

Purity: Affinity purification

For research use only.

Background:

Notch proteins (Notch1-4) are a family of transmembrane receptors that play important roles in development and the determination of cell fate (1). Mature Notch receptors are processed and assembled as heterodimeric proteins, with each dimer comprised of a large extracellular ligand-binding domain, a single-pass transmembrane domain, and a smaller cytoplasmic subunit (Notch intracellular domain, NICD) (2). Binding of Notch receptors to ligands of the Delta-Serrate-Lag2 (DSL) family triggers heterodimer dissociation, exposing the receptors to proteolytic cleavages; these result in release of the NICD, which translocates to the nucleus and activates transcription of downstream target genes (3-4).Notch3 is a member of the Notch family and is processed similar to Notch1 (5). It is expressed primarily in arterial smooth muscle cells (SMC). Mutations altering the number of cysteine residues in the Notch3 extracellular region are associated with cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL), a hereditary angiopathy leading to strokes and dementia in adults (6-8). Recent studies indicate that Notch3 is overexpressed in many types of cancer (9-11).

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