

Notch1 Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 56544 (clone S253-32)
Size: 100ug in PBS, pH 7.4; 50% glycerol, 0.09% sodium azide. Purified by Protein G affinity chromatography.

BACKGROUND

Members of the Notch trans-membrane protein family share structural characteristics including an extracellular domain consisting of multiple epidermal growth factor-like (EGF) repeats, and an intracellular domain consisting of multiple, different domain types. The Notch signaling network is an intercellular signaling pathway that regulates interactions between physically adjacent cells. The Notch1 protein is cleaved in the trans-Golgi network, and presented on the cell surface as a heterodimer. It functions as a receptor for membrane bound ligands, and may play multiple roles during development. There is evidence that activated Notch 1 and Notch 3 promote differentiation of progenitor cells into astroglia. Notch 1, activated before birth, induces radial glia differentiation, but postnatally induces the differentiation into astrocytes.

SPECIFICATION SUMMARY

Antigen: Fusion protein corresponding to aa 20-216 (extracellular N-terminus, EGF-like domains 1-5) of mouse Notch1 (accession no. Q01705).
Host Species: Mouse
Antibody Class: IgG1

SPECIFICITY

This antibody recognizes mouse and rat Notch1. It does not cross-react with Notch2 or Notch3.

APPLICATIONS

Immunoblotting: use at 1ug/ml. Bands of >270kDa, ~120kDa, and smaller fragments (due to proteolysis) are detected .

Positive control: Rat brain lysate. These are recommended concentrations. User should determine optimal concentrations for their application.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.