

HAMSTER ANTI-NOTCH 1 MONOCLONAL ANTIBODY

CATALOG NUMBER:	MAB5414	QUANTITY:	100 µL
LOT NUMBER:			
ALTERNATE NAMES:	Motch A; mT14; p300	EPITOPE:	Extracellular
CLONE NAME:	8G10	HOST/ISOTYPE:	Syrian hamster IgG1

BACKGROUND: Notch 1 is a type 1 membrane protein that serves as a receptor for the membrane bound ligands jagged-1 and -2 and delta-1 to regulate cell fate determination through the implementation of differentiation, proliferation and apoptotic programs. Upon ligand binding, the Notch intracellular domain (NICD) is released by proteolytic processing and subsequently translocates to the nucleus where it forms a transcriptionally active complex with RBP-J kappa to activate genes of the enhancer of split locus. Notch-1 may also be involved in cell specification and/or differentiation and body segment determination in the postimplantation embryo. In the adult animal, Notch-1 is highly expressed in the brain, lung, and thymus with lower expression levels in the spleen, bone-marrow, spinal cord, eyes, mammary gland, liver, intestine, skeletal muscle, kidney and heart.

SPECIFICITY: Reacts with natural and recombinant Notch1. Recognizes a band migrating at approximately 300 kDa on Western blots of rat and mouse protein extracts. A cross reactive band migrating at approximately 230 kDa is observed in some samples and is believed to correspond to the processed extracellular fragment of Notch 1.

APPLICATIONS: Western blot
Immunohistochemistry on paraformaldehyde fixed frozen tissue sections.
Flow Cytometry
Optimal working dilutions must be determined by end user.

SPECIES REACTIVITY: Reacts with Rat and Mouse. Reactivity with other species has not been determined.

IMMUNOGEN: A GST fusion protein comprising amino acids 1299-1492 of mouse Notch 1.

CONTROL: POSITIVE CONTROL: brain, lung, thymus.

PRESENTATION: Unpurified tissue culture supernatant from a perfusion system, filtered through a 0.2 micron membrane prior to vialing. Product contains 20% FBS and Ciprofloxacin at final concentration of 10 µg/mL.

STORAGE/HANDLING: Maintain at -20°C in undiluted aliquots for up to 6 months from date of receipt. Avoid repeated freeze/thaw cycles.

RELATED REFERENCES: Robey, E. (1997). Notch in vertebrates. *Curr. Opin. Genet. Dev.* 7:551-557.

Hsieh, J. *et al.* (1996). Truncated Mammalian Notch1 Activates CBF1/RBPJk-Repressed Genes by a Mechanism Resembling That of Epstein-Barr Virus EBNA2. *Molecular and*

For research use only; not for use as a diagnostic.

Cellular Biology 16:952-959.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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