#3447 sto

Notch1 (5B5) Rat mAb



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Applications: W, IP	Reactivity: H M R B	Sensitivity: Endogenous	MW (kDa): 120, 300	Source/Isotype: Rat IgG2b	UniProt ID: #P46531	Entrez-Gene Id: 4851
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Notch1 (5B5) Rat mAb detects endogenous levels of total Notch1 protein. It recognizes both the full-length (~ 300 kDa) protein and the transmembrane/intracellular region NTM (~120 kDa), which consists of a short extracellular juxtamembrane peptide, a transmembrane sequence and the intracellular domain (NICD). The antibody cannot detect the extracellular (ligand-binding) domain of Notch1 following cleavage at the S2 site by ADAM-type metalloproteases.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a fusion protein corresponding to intracellular residues of Notch1.				
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 composed 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).				
Background R	eferences	 Artavanis-Tsakonas, S. et al. (1999) Science 284, 770-6. Chan, Y.M. and Jan, Y.N. (1998) Cell 94, 423-6. Schroeter, E.H. et al. (1998) Nature 393, 382-6. Rand, M.D. et al. (2000) Mol Cell Biol 20, 1825-35. 				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human M: Mouse R: Rat B: Bovine

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