Notch1 (5B5) Rat mAb



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Applications: WB, 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	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Imr	munoprecipitation		1:50			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.				erol and less than	
(~ 300 kDa) protein and the textracellular juxtamembrane			I the transmembro orane peptide, a t tect the extracell	tects endogenous levels of total Notch1 protein. It recognizes both the full-length e transmembrane/intracellular region NTM (~120 kDa), which consists of a short ne peptide, a transmembrane sequence and the intracellular domain (NICD). It the extracellular (ligand-binding) domain of Notch1 following cleavage at the alloproteases.			
Source / Purification Monoclonal antibody is produced by immuniz residues of Notch1.				inizing animals with a fusion protein corresponding to intracellular			
Background	deve as h sing (2). diss	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).					

1. Artavanis-Tsakonas, S. et al. (1999) Science 284, 770-6. **Background References**

2. Chan, Y.M. and Jan, Y.N. (1998) Cell 94, 423-6.

3. Schroeter, E.H. et al. (1998) Nature 393, 382-6.

4. Rand, M.D. et al. (2000) Mol Cell Biol 20, 1825-35.

Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity**

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry Western Blot Buffer

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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