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Notch3 (8G5) Rat mAb

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 90, 270	Source/Isotype: Rat IgG2a	UniProt ID: #Q9UM47	Entrez-Gene Id: 4854		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
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/Sens	sitivity	Notch3 (8G5) Rat mAb detects endogenous levels of total notch3 protein. It recognizes the full-length (270 kDa) and the extracellular truncated fragment containing a short extracellular region, the transmembrane domain and the intracellular region (90 kDa).						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a fusion protein corresponding to intracellular residues of notch3.						
Background Notch proteins (Notch1-4) are a family of transmembrane receptors that play important re development and the determination of cell fate (1). Mature Notch receptors are processed assembled as heterodimeric proteins, with each dimer composed of a large extracellular I domain, a single-pass transmembrane domain, and a smaller cytoplasmic subunit (Notch domain, NICD) (2). Binding of Notch receptors to ligands of the Delta-Serrate-Lag2 (DSL) fa heterodimer dissociation, exposing the receptors to proteolytic cleavages; these result in NICD, which translocates to the nucleus and activates transcription of downstream target						essed and ular ligand-binding lotch intracellular VSL) family triggers ılt in release of the		
Background References		Notch3 is a member of notch family that is processed in a similar way 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 cancers (9-11).						
		 Artavanis-Tsakonas, S. et al. (1999) <i>Science</i> 284, 770-6. Chan, Y.M. and Jan, Y.N. (1998) <i>Cell</i> 94, 423-6. Schroeter, E.H. et al. (1998) <i>Nature</i> 393, 382-6. Rand, M.D. et al. (2000) <i>Mol Cell Biol</i> 20, 1825-35. Baron, M. (2003) <i>Semin Cell Dev Biol</i> 14, 113-9. Kalimo, H. et al. (2002) <i>Brain Pathol</i> 12, 371-84. Karlström, H. et al. (2007) <i>Hum Mol Genet</i> 16, 982-92. Park, J.T. et al. (2006) <i>Cancer Res</i> 66, 6312-8. Gramantieri, L. et al. (2007) <i>Liver Int</i> 27, 997-1007. Yamaguchi, N. et al. (2008) <i>Cancer Res</i> 68, 1881-8. 						
Species Reactiv	ity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Ke	ey	W: Western Blotting						
Cross-Reactivit	у Кеу	H: Human						
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