Cleaved Notch1 (Val1744) Antibody





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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit	UniProt ID: #P46531	Entrez-Gene Id: 4851	
Product Usage Information		Application Western Blotting Immunoprecipitation	Western Blotting 1:1000				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sen	Specificity/Sensitivity Cleaved Notch1 (Val1744) Antibody detects endogenous levels of the Notch1 intracellular d (NICD) only when released by cleavage between Gly1753 and Val1754 (equivalent to Gly174 of murine Notch1). This antibody does not recognize full-length Notch1 or Notch1 cleaved positions. This antibody may cross-react with overexpressed cleaved Notch2, 3 and 4.				Gly1743/Val1744 eaved at other		
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence at the Val1754 cleavage site in human Notch 1 (equivalent to Val1744 in mouse Notch1). Antibodies are purified by protein A and peptide affinity chromatography.					
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). The NICD of murine Notch1 is released (activated) by cleavage between Gly1743 and Val1744 (corresponding to Gly1753/Val1754 in human Notch1) (3, 4). Mutations that result in constitutive activation of Notch1 are associated with many different cancers, including a majority of cases of T cell acute lymphoblastic leukemia (T-ALL). Activation may be due to mutations in Notch1 itself, or in components of the ubiquitin ligase complex that negatively regulates the Notch signaling pathway (5-6).					
Background Re	eferences	1. Artavanis-Tsakonas, S. et al. (1999) <i>Science</i> 284, 770-6. 2. Chan, Y.M. and Jan, Y.N. (1998) <i>Cell</i> 94, 423-6. 3. Schroeter, E.H. et al. (1998) <i>Nature</i> 393, 382-6. 4. Rand, M.D. et al. (2000) <i>Mol Cell Biol</i> 20, 1825-35. 5. Weng, A.P. et al. (2004) <i>Science</i> 306, 269-71. 6. Thompson, B.J. et al. (2007) <i>J Exp Med</i> 204, 1825-35.					
Species Reactiv	vity	Species reactivity is det	ermined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	Buffer	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 K	ey	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivit	y Key	H: Human M: Mouse R: Rat Mk: Monkey					
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