TAL1 Antibody		Cell Signaling TECHNOLOGY®	
	Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#12831	Web:	info@cellsignal.com cellsignal.com	
	3 Trask Lane Danvers Mas	sachusetts 01923 USA	
For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: W	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 50	Source/Isotype: Rabbit	UniProt ID: #P17542	Entrez-Gene Id: 6886		
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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	TAL1 Antibody recognizes transfected levels of total TAL1 protein.						
Species predict based on 100% homology		Monkey						
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human TAL1 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		The basic helix-loop-helix (bHLH) family of transcription factors play roles in a variety of developmental and adult biological settings (1). The basic (b) domain of bHLH transcription factors allows association with DNA, while the HLH domain facilitates the mono- and heterodimeric interactions required for efficient DNA binding (1). TAL1, also known as SCL, is a bHLH transcription factor that plays an essential role in the generation of embryonic hematopoietic stem cells (2), and is required for maturation of erythroid and megakaryocytic lineages in the adult (3). TAL1 interacts with Lim-domain containing proteins LMO2 and Ldb1, and has been found in complexes with these proteins as well as the hematopoietic transcription factor GATA-1 (4). Both TAL1 and LMO2 have been associated with T-cell acute lymphoblastic leukemia (T-ALL) (5,6). TAL1 activity is essential for both hematopoiesis and neurogenesis (7).						
Background Re	eferences	 Massari, M.E. and Murre, C. (2000) <i>Mol Cell Biol</i> 20, 429-40. Gering, M. et al. (1998) <i>EMBO J</i> 17, 4029-45. Hall, M.A. et al. (2003) <i>Proc Natl Acad Sci U S A</i> 100, 992-7. Wadman, I.A. et al. (1997) <i>EMBO J</i> 16, 3145-57. Lécuyer, E. and Hoang, T. (2004) <i>Exp Hematol</i> 32, 11-24. Rabbitts, T.H. (1998) <i>Genes Dev</i> 12, 2651-7. Bradley, C.K. et al. (2006) <i>Eur J Neurosci</i> 23, 1677-89. 						
Species Reactiv	vity	Species reactivity is de	termined by testin	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						
Cross-Reactivit	ту Кеу	H: Human						
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