GFI1b (D3G2) Rabbit mAb			
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
<u>6</u>	Support:	877-678-TECH (8324)	
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Applications: WB, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 35, 42	Source/Isotype: Rabbit IgG	UniProt ID: #Q5VTD9	Entrez-Gene Id: 8328	
Product Usage Information	W	Application Western Blotting Flow Cytometry (Fixed/Permeabilized)			Dilution 1:1000 1:400 - 1:1600		
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 / Sensi	i tivity GF	GFI1b (D3G2) Rabbit mAb recognizes endogenous levels of total GFI1b protein.					
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr119 of human GFI1b protein.					
Background	me rec anc con bip pro bin trar trar imp	GFI1b and its homolog GFI1 are transcriptional repressors and important regulators of erythroid and megakaryocytic development and differentiation (1,2). GFI1b negatively regulates transcription by recruiting chromatin regulatory proteins including CoREST, the histone demethylase LSD1 and HDACs 1 and 2, which associate with GFI1b via its SNAG repression domain (3). GFI1b has also been shown to control the differentiation of erythroid and megakaryocytic progenitors by regulating TGF- β signaling at the bipotent progenitor stage (4). Inactivation of GFI1b in mice leads to embryonic lethality due to failure to produce functional erythrocytes and megakaryocytes (2). The GFI1b gene locus can be autoregulated by binding to its own promoter in hematopoietic cells, likely through interacting with GATA-1, another transcription factor essential for erythroid and megakaryocytic development (5). Mutations in GFI1b are implicated in various leukemias (6) and GFI1b has been found in a complex with GATA-1 and SUZ12 on repressed genes in erythroleukemia cells (7).					
Background Refe	ackground References 1. Duan, Z. and Horwitz, M. (2003) Hematology 8, 339-44. 2. Saleque, S. et al. (2002) Genes Dev 16, 301-6. 3. Saleque, S. et al. (2007) Mol Cell 27, 562-72. 4. Randrianarison-Huetz, V. et al. (2010) Blood 115, 2784-95. 5. Vaziri, K. et al. (2005) South Med J 98, 825-6. 6. Elmaagacli, A.H. et al. (2007) Br J Haematol 136, 212-9. 7. Yu, M. et al. (2009) Mol Cell 36, 682-95.						
Species Reactivity	y Spe	cies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buff		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 Key	WB	: Western Blotting FC	-FP: Flow Cyto	metry (Fixed/Permeabili	zed)		
Cross-Reactivity I	X: X	 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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