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Sall4 Antibody			
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
	Support:	877-678-TECH (8324)	
#5850	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane   Danvers   Massachusetts   01923   USA		
For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 80, 142	Source/Isotype: Rabbit	UniProt ID: #Q9UJQ4	Entrez-Gene Id: 57167
Product Usage Information		<b>Application</b> 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.				
<b>Specificity/Sensitivity</b> Sall4 Antibody recognizes endogenous also detect other Sall4 isoforms.			levels of total Sall4 protein, isoforms A and B. This antibody may			
Species predict based on 100% homology	ed to react sequence	Monkey				
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Sall4 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Members of the <i>SALL</i> gene family encode putative zinc finger transcription factors highly expressed during development (1). Sall4 is expressed very early in development with other pluripotency regulators, such as Oct-4 and Nanog (2). Recent studies suggest Sall4 works as a master regulator that controls its own expression and the expression of Oct-4 in a transcriptional regulation feedback loop governing stem cell pluripotency and stem cell fate (2,3). Immunohistochemical studies indicate that Sall4 is a sensitive and specific diagnostic marker for primary germ cell tumors and yolk sac tumors (4,5). Research studies have shown that Sall4 is constitutively expressed in acute myeloid leukemia (AML) and is a probable effector of the Wnt/β-catenin signaling pathway in this disease (6). In addition, mutations in <i>SALL4</i> have been implicated in human malformation syndromes, including Duane-radial ray syndrome (Okihiro syndrome) and Acro-renal-ocular syndrome (7).				
Background Re	ferences	1. Sweetman, D. and Münsterberg, A. (2006) <i>Dev Biol</i> 293, 285-93. 2. Yang, J. et al. (2008) <i>Proc Natl Acad Sci USA</i> 105, 19756-61. 3. Yang, J. et al. (2010) <i>PLoS One</i> 5, e10766. 4. Mei, K. et al. (2009) <i>Mod Pathol</i> 22, 1628-36. 5. Miertus, J. et al. (2006) <i>Hum Genet</i> 119, 154-61. 6. Ma, Y. et al. (2006) <i>Blood</i> 108, 2726-35. 7. Al-Baradie, R. et al. (2002) <i>Am J Hum Genet</i> 71, 1195-9.				
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	∋y	W: Western Blotting				
Cross-Reactivit	у Кеу	H: Human				
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