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## Sall4 (D16H12) Rabbit mAb



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Applications: WB, IF-IC	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 80, 142	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #Q9UJQ4	Entrez-Gene Id: 57167	
Product Usage Information	Ap	Application				Dilution	
	We	Western Blotting				1:1000	
	Im	Immunofluorescence (Immunocytochemistry)				1:100 - 1:400	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				erol and less than	
Specificity / Sensitivity		Sall4 (D16H12) Rabbit mAb recognizes endogenous levels of total Sall4A and Sall4B proteins. Western blot analysis detects additional bands that are likely Sall4 isoforms.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala311 of human Sall4 protein.					
Background	dev Oct exp plur spe sho the imp	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 Refe	2. Y 3. Y 4. M 5. M	<ol> <li>Sweetman, D. and Münsterberg, A. (2006) Dev Biol 293, 285-93.</li> <li>Yang, J. et al. (2008) Proc Natl Acad Sci USA 105, 19756-61.</li> <li>Yang, J. et al. (2010) PLoS One 5, e10766.</li> <li>Mei, K. et al. (2009) Mod Pathol 22, 1628-36.</li> <li>Miertus, J. et al. (2006) Hum Genet 119, 154-61.</li> <li>Ma, Y. et al. (2006) Blood 108, 2726-35.</li> </ol>					

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot 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 Key** 

WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key** 

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

7. Al-Baradie, R. et al. (2002) Am J Hum Genet 71, 1195-9.

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