SMRT (D8D2L) Rabbit mAb		Cell Signaling TECHNOLOGY®	
Stor		Orders:	877-616-CELL (2355) orders@cellsignal.com
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3 Trask Lane Danvers Massachusetts 01923 USA			
For Research Use Only. Not for Applications: Reactive		UniProt ID:	Entrez-Gene Id:
WB, ChIP H M		#Q9Y618	9612
Product Usage Information	For optimal ChIP results, use 10 μ I of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.		
	Application	Dilution	
	Western Blotting	1:1000	
	Chromatin IP	1:50	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.		
Specificity / Sensitivity	SMRT (D8D2L) Rabbit mAb recognizes endogenous levels of total SMRT protein. This antibody does not cross-react with NCoR1 protein.		
Source / Purification	Monoclonal antibody is produced by immunizing animals with a residues near the amino terminus of human SMRT protein.	ecombinant protein	corresponding to
Background	The most well characterized nuclear receptor corepressors are NCoR1 (nuclear receptor corepressor) and its close paralog NCoR2, also know as SMRT (silencing mediator for retinoic acid and thyroid hormone receptors) (1,2). NCoR1 and SMRT function to transcriptionally silence various unliganded, DNA bound non-steroidal nuclear receptors by serving as a large molecular scaffold that bridges the receptors with multiple chromatin remodeling factors that repress nuclear receptor-mediated gene transcription, in part, through deacetylation of core histones surrounding target promoters. Indeed, the N-terminal portion of NCoR1 and SMRT possess multiple distinct transcriptional repression domains (RDs) responsible for the recruitment of additional components of the corepressor complex such as HDACs, mSin3, GPS2, and TBL1/TBLR1. In between the RDs lies a pair of potent repressor motifs known as SANT motifs (SWI3, ADA2, N-CoR, and TFIIIB), which recruit HDAC3 and histones to the repressor complex in order to enhance HDAC3 activity (3). The C-terminal portion of NCoR1 and SMRT contain multiple nuclear receptor interaction domains (NDs), each of which contains a conserved CoRNR box (or L/I-X-X-I/V-I) motif that allow for binding to various unliganded nuclear hormone receptors such as thyroid hormone (THR) and retinoic acid (RAR) receptors (4,5).		
Background References	 Chen, J.D. and Evans, R.M. (1995) Nature 377, 454-7. Hörlein, A.J. et al. (1995) Nature 377, 397-404. Jones, P.L. and Shi, Y.B. (2003) Curr Top Microbiol Immunol 2⁻⁴. Downes, M. et al. (1996) Nucleic Acids Res 24, 4379-86. Wong, C.W. and Privalsky, M.L. (1998) Mol Cell Biol 18, 5724- 		
Species Reactivity	Species reactivity is determined by testing in at least one approve	d application (e.g., v	western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overni	, ,	5% w/v nonfat dry
Applications Key	WB: Western Blotting ChIP: Chromatin IP		
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus N X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevis GP: Guinea Pig Rab: rabbit All: all species expected 		-
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Techno SimpleChIP is a registered trademark of Cell Signaling Technolog	••	

SMRT (D8D2L) Rabbit mAb (#62370) Datasheet Without Images Cell Signaling Technology

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