e at -20C	MKL2/MRTF-B Antibody		Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Reacti WB, IP H M		<b>MW (kDa):</b> 145	Source: Rabbit	UniProt ID: #Q9ULH7	Entrez-Gene Id: 57496		
Product Usage Information	Application Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50			
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu g/ml$ BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensitivity	MKL2/MRTF-B Antibody recognizes endogenous levels of total MKL2/MRTF-B protein.						
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding GIn1081 of human MKL2/MRTF-B protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	The megakaryoblastic leukemia proteins 1 and 2 (MKL1, MKL2) are myocardin-related transcription factors (MRTF-A, MRTF-B) that serve as actin-regulated transcription coactivators for the serum response factor (SRF). Interaction between G-actin and MKL proteins retains the coactivator within the cytoplasm of resting cells. Activated Rho-A promotes F-actin assembly and a reduction of the G-actin pool in serum-stimulated cells. This results in the accumulation of MKL proteins in the nucleus, where the coactivator associates with the SRF to activate target gene transcription and mediate multiple cellular processes (1-4). A number of other signaling pathways, including the TGF $\beta$ , BMP, and PDGF pathways, also make use of MKL-mediated activation of target gene transcription (5-9). Chromosomal translocations involving the genes encoding MKL1 and MKL2 have been identified in several cases of acute megakaryoblastic leukemia and chondroid lipoma (10-12).						
Background References	1. Olson, E.N. and Nordl 2. Knöll, B. (2010) <i>Biol C</i> 3. Cen, B. et al. (2004) J 4. Pipes, G.C. et al. (200 5. O'Connor, J.W. and G 6. Scharenberg, M.A. et 7. Wang, D. et al. (2012) 8. Lundquist, M.R. et al. 9. Vasudevan, H.N. and 10. Huang, D. et al. (2010) 11. Flucke, U. et al. (2013) 12. Ma, Z. et al. (2001) <i>Na</i>	Chem 391, 591-7. 1 Cell Biochem 93, 206) Genes Dev 20, 207, E.W. (2013) 208, al. (2014) J Cell Sc 209 J Biol Chem 287, 2014) Cell 156, 56 Soriano, P. (2014) 209 Genes Chromoso 209 Histopathology 6	74-82. 1545-56. PLoS One 8, e8314 ci 127, 1079-91. 28067-77. 53-76. Dev Cell 31, 332-44 omes Cancer 49, 81 2, 925-30.	38.			
Species Reactivity	Species reactivity is deter	rmined by testing ir	n at least one approv	ved application (e.g., we	stern blot).		
Western Blot Buffer	IMPORTANT: For western 0.1% Tween® 20 at 4°C v		membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, ing, overnight.				
Applications Key	WB: Western Blotting IP	: Immunoprecipitat	ion				
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>						
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