Store at -20C

#14613

MKL2/MRTF-B Antibody	HE .
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 145	Source/Isotype: Rabbit	UniProt ID: #Q9ULH7	Entrez-Gene Id: 57496		
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
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.						
Specificity/Se	ecificity/Sensitivity MKL2/MRTF-B Antibody recognizes endogenous levels of total MKL2/MRTF-B protein.							
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln1081 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 TGFβ, 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 R	eferences	 Olson, E.N. and Nordheim, A. (2010) <i>Nat Rev Mol Cell Biol</i> 11, 353-65. Knöll, B. (2010) <i>Biol Chem</i> 391, 591-7. Cen, B. et al. (2004) <i>J Cell Biochem</i> 93, 74-82. Pipes, G.C. et al. (2006) <i>Genes Dev</i> 20, 1545-56. O'Connor, J.W. and Gomez, E.W. (2013) <i>PLoS One</i> 8, e83188. Scharenberg, M.A. et al. (2014) <i>J Cell Sci</i> 127, 1079-91. Wang, D. et al. (2012) <i>J Biol Chem</i> 287, 28067-77. Lundquist, M.R. et al. (2014) <i>Cell</i> 156, 563-76. Vasudevan, H.N. and Soriano, P. (2014) <i>Dev Cell</i> 31, 332-44. Huang, D. et al. (2010) <i>Genes Chromosomes Cancer</i> 49, 810-8. Flucke, U. et al. (2013) <i>Histopathology</i> 62, 925-30. Ma, Z. et al. (2001) <i>Nat Genet</i> 28, 220-1. 						
Species React	ivity	Species reactivity is de	etermined by testir	ig in at least one approve	ed application (e.g.,	western blot).		
Western Blot	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20	ern blots, incubate at 4°C with gentle	te membrane with diluted primary antibody in 5% w/v BSA, 1X le shaking, overnight.				
Applications k	(ey	W: Western Blotting I	P: Immunoprecipit	ation				
Cross-Reactivi	ty Key	H: Human M: Mouse						
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