Ron (1	B5) Mouse mAb	T			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 170	Source/Isotype: Mouse IgG1	UniProt ID: #Q04912	Entrez-Gene Id 4486		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		Ron (1B5) Mouse mAb detects endogenous levels of the 170 kDa full-length Ron protein. This antibody does not cross-react with other family members.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant Trx-Ron fusion protein containing amino acids 210-320 of human Ron expressed in <i>E. coli</i> .						
Background		Ron is a member of the Met proto-oncogene family of receptor tyrosine kinases, which also includes Stk, c-Met, and c-Sea. The functional Ron is a heterodimer composed of a 40 kDa α chain and a 150 kDa β chain. Ron is initially synthesized in the cells as a single-chain, pro-Ron precursor that is cleaved into the two active chains. The α chain is completely extracellular, whereas the β chain traverses the cell membrane and contains the intracellular tyrosine kinase and regulatory elements (1,2). Ron mediates multiple signaling cascades that involve cell motility, adhesion, proliferation, and apoptosis. The signaling pathways activated downstream of Ron include the ras/mitogen-activated protein kinase (MAPK), phosphatidyl inositol-3 kinase (PI3K)/Akt, and focal adhesion kinase (FAK) pathways. Ron activation can also significantly increase c-Src activity, a signaling intermediate involved in cell cycle progression, motility, angiogenesis, and survival (3,4). The function of Ron has been shown to be important for embryological development as well as implicated in the progression and metastasis of tumors (5).						
Background References		1. Ronsin, C. et al. (1993) <i>Oncogene</i> 8, 1195-202. 2. Gaudino, G. et al. (1994) <i>EMBO J</i> 13, 3524-32. 3. Wang, M.H. et al. (1996) <i>Oncogene</i> 13, 2167-75. 4. Danilkovitch-Miagkova, A. (2003) <i>Curr Cancer Drug Targets</i> 3, 31-40. 5. Leonard, E.J. (1997) <i>Ciba Found Symp</i> 212, 183-91; discussion 192-7.						
Species Reactivit	у	Species reactivity is d	letermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key		W: Western Blotting						
Cross-Reactivity l	Key	H: Human						
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