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Phospho-CSF-1R/M-CSF-R (Tyr723) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 175	Source/Isotype: Rabbit	UniProt ID: #P07333	Entrez-Gene Id: 1436		
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 and 50% glycerol. Store at 20°C. Do not aliquot the antibody.				ycerol. Store at –		
Specificity/Sensitivity		Phospho-CSF-1R/M-CSF-R (Tyr723) Antibody detects endogenous CSF-1R/M-CSF-R only when phosphorylated at tyrosine 723.						
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr723 of human CSF-1R/M-CSF-R. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Macrophage-colony stimulating factor (M-CSF, CSF-1) receptor is an integral membrane tyrosine kinase encoded by the <i>c-fms</i> proto-oncogene. M-CSF receptor is expressed in monocytes (macrophages and their progenitors) and drives growth and development of this blood cell lineage (1-3). Binding of M-CSF to its receptor induces receptor dimerization, activation, and autophosphorylation of cytoplasmic tyrosine residues used as docking sites for SH2-containing signaling proteins (4). There are at least five major tyrosine autophosphorylation sites. Tyr723 (Tyr721 in mouse) is located in the kinase insert (KI) region. Phosphorylated Tyr723 binds the p85 subunit of PI3 kinase as well as PLCy2 (5). Phosphorylation of Tyr809 provides a docking site for Shc (5). Overactivation of this receptor can lead to a malignant phenotype in various cell systems (6). The activated M-CSF receptor has been shown to be a predictor of poor outcome in advanced epithelial ovarian carcinoma (7) and breast cancer (8).						
Background Re	eferences	 Stanley, E.R. et al. (1978) <i>Nature</i> 274, 168-70. Byrne, P.V. et al. (1981) <i>J Cell Biol</i> 91, 848-53. Bourette, R.P. and Rohrschneider, L.R. (2000) <i>Growth Factors</i> 17, 155-66. Novak, U. et al. (1996) <i>Oncogene</i> 13, 2607-13. Bourette, R.P. et al. (1997) <i>EMBO J</i> 16, 5880-93. Morley, G.M. et al. (1999) <i>Oncogene</i> 18, 3076-84. Toy, E.P. et al. (2001) <i>Gynecol Oncol</i> 80, 194-200. Maher, M.G. et al. (1998) <i>Clin Cancer Res</i> 4, 1851-6. 						
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	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.				n 5% w/v BSA, 1X		
Applications K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human M: Mouse						
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
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