£3154

Phospho-CSF-1R/M-CSF-R (Tyr809) 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 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-CSF-1R/M-CSF-R (Tyr809) Antibody detects endogenous levels of CSF-1R/M-CSF-R only when phosphorylated at tyrosine 809. The antibody may cross-react slightly with activated KDR and PDGF receptors.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues around Tyr809 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 PLCγ2 (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 References		 Stanley, E.R. et al. (1978) Nature 274, 168-70. Byrne, P.V. et al. (1981) J Cell Biol 91, 848-53. Bourette, R.P. and Rohrschneider, L.R. (2000) Growth Factors 17, 155-66. Novak, U. et al. (1996) Oncogene 13, 2607-13. Bourette, R.P. et al. (1997) EMBO J 16, 5880-93. Morley, G.M. et al. (1999) Oncogene 18, 3076-84. Toy, E.P. et al. (2001) Gynecol Oncol 80, 194-200. Maher, M.G. et al. (1998) Clin Cancer Res 4, 1851-6. 				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Mastaus Blat Buffer		IMPORTANT. For weathers blate in sub-standard warms with diluted suite and suit advice FOV web DCA 4V				

Western Blot 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.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse

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