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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: WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 175	Source: Rabbit	UniProt ID: #P07333	Entrez-Gene ld: 1436
Product Usage Information	Ap	plication		Dilution		
	We	estern Blotting			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 / Sensiti	,	Phospho-CSF-1R/M-CSF-R (Tyr723) Antibody detects endogenous CSF-1R/M-CSF-R only when whosphorylated at tyrosine 723.				
Source / Purificatio	to re	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).					nacrophages and Binding of M-CSF to plasmic tyrosine least five major insert (KI) region. sphorylation of a malignant
Background Refere	1. Stanley, E.R. et al. (1978) <i>Nature</i> 274, 168-70. 2. Byrne, P.V. et al. (1981) <i>J Cell Biol</i> 91, 848-53. 3. Bourette, R.P. and Rohrschneider, L.R. (2000) <i>Growth Factors</i> 17, 155-66. 4. Novak, U. et al. (1996) <i>Oncogene</i> 13, 2607-13. 5. Bourette, R.P. et al. (1997) <i>EMBO J</i> 16, 5880-93. 6. Morley, G.M. et al. (1999) <i>Oncogene</i> 18, 3076-84. 7. Toy, E.P. et al. (2001) <i>Gynecol Oncol</i> 80, 194-200. 8. Maher, M.G. et al. (1998) <i>Clin Cancer Res</i> 4, 1851-6.					

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

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 WB: Western Blotting

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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