

## Phospho-CSF-1R/M-CSF-R (Tyr708) Antibody



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

Applications: W	<b>Reactivity:</b> H M	Sensitivity: Transfected Only	<b>MW (kDa):</b> 175	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #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.						
Specificity/Sensitivity		Phospho-CSF-1R/M-CSF-R (Tyr708) Antibody detects transfected levels of CSF-1R/M-CSF-R only when phosphorylated at Tyr708. This antibody may cross-react with other activated protein tyrosine kinases including insulin and EGF receptors.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr708 of human CSF-1R/M-CSF-R. Antibodies are purified by protein A and peptide affinity chromatography.						
Background Background R	eferences	<ul> <li>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 PLCv2 (5).</li> <li>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).</li> <li>Tyr708 (Tyr706 in mouse) is located in the KI region of M-CSF receptor. Phosphorylation of Tyr708 may influence the binding of PI3 kinase to the activated M-CSF receptor (9).</li> <li>1. Stanley, E.R. et al. (1978) <i>Nature</i> 274, 168-70.</li> <li>2. Byrne, P.V. et al. (1981) <i>J Cell Biol</i> 91, 848-53.</li> <li>3. Bourette, R.P. and Rohrschneider, L.R. (2000) <i>Growth Factors</i> 17, 155-66.</li> <li>4. Novak, U. et al. (1996) <i>Oncogene</i> 13, 2607-13.</li> <li>5. Bourette, R.P. et al. (1997) <i>EMBO J</i> 16, 5880-93.</li> <li>6. Morley, G.M. et al. (1999) <i>Oncogene</i> 18, 3076-84.</li> <li>7. Toy, E.P. et al. (2001) <i>Gynecol Oncol</i> 80, 194-200.</li> <li>8. Maher, M.G. et al. (1998) <i>Clin Cancer Res</i> 4, 1851-6.</li> <li>9. Downing, J.R. et al. (1991) <i>Mol. Cell Biol.</i> 11, 2489-2495.</li> </ul>						
Species Reacti	ivity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot I	Western Blot BufferIMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/vTBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				n 5% w/v BSA, 1X			
Applications K	pplications Key W: Western Blotting							
Cross-Reactivi	ity Key	H: Human M: Mouse						
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