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## Phospho-CSF-1R/M-CSF-R (Tyr708) (D5F4Y) Rabbit mAb



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Applications: W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 175	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P07333	Entrez-Gene Id: 1436		
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100			
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. <i>Do not aliquot the antibody.</i>						
Specificity/Sen	sitivity	Phospho-CSF-1R/M-CSF-R (Tyr708) (D5F4Y) Rabbit mAb recognizes endogenous levels of CSF-1R/M-CSF- R only when phosphorylated at Tyr708. This antibody may cross-react with other activated protein tyrosine kinases such as phospho-Src.						
Species predict based on 100% homology		Mouse, Rat						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr708 of human CSF-1R/M-CSF-R protein.						
Background	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. (1991) <i>Mol Cell Biol</i> 11, 2489-95.</li> </ul>						
Species Reactiv	vity	Species reactivity is de	termined 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.						
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human						
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