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Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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Applications: WB, IP, IF-IC, FC-L	Reactivity H	Sensitivity: Endogenous	MW (kDa): 140-200	Source/Isotype: Rabbit IgG	UniProt ID: #P07333	Entrez-Gene Id: 1436		
Product Usage		Application			Dilution			
Information		Western Blotting			1:1000			
		Immunoprecipitation			1:200			
		Immunofluorescence (Immunocytochemistry)			1:100			
		Flow Cytometry (Live)			1:100 - 1:400			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		CSF-1R/M-CSF-R (D3O9X) $XP^{ extsf{B}}$ Rabbit mAb #67455 recognizes endogenous levels of total CSF-1R/M-CSF-R protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant CSF-1R/M-CSF-R protein.						
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 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 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 TB 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key		WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-L: Flow Cytometry (Live)						
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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CSF-1R/M-CSF-R (D3O9X) XP® Rabbit mAb (#67455) Datasheet Without Images Cell Signaling Technology

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