

CSF-1R/M-CSF-R (D3O9X) XP® Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IF-IC, FC-L	Н	Endogenous	140-200	Rabbit IgG	#P07333	1436
Product Usage Information		Application			Dilution	
		Western Blotting			1:1000	
		Immunoprecipitation			1:200	
		Immunofluorescence (Immunocytochemistry)			1:100 1:100 - 1:400	
		Flow Cytometry (Live)			1;1	00 - 1:400
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. Do not aliquot the antibody.				
		For a carrier free (BSA and azide free) version of this product see product #86928.				
Specificity/Sensitivity		CSF-1R/M-CSF-R (D3O9X) XP [®] 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 P13 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 Re	eferences	 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

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-L:

Flow Cytometry (Live)

Cross-Reactivity Key H: Human

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