CSF-1R/M-CSF-R (D3O9X) XP[®] Rabbit mAb (PE Conjugate)



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

Applications: FC-FP, FC-L	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P07333	Entrez-Gene Id: 1436
Product Usage Information		Application Flow Cytometry (Fixed/Po	ermeabilized)		Dilution 1:50 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		CSF-1R/M-CSF-R (D3O9X) XP [®] Rabbit mAb (PE Conjugate) 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.			
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated CSF-1R/M-CSF-R (D3O9X) XP [®] Rabbit mAb #67455.			
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 PLCγ2 (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		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).

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry (Live)

Cross-Reactivity Key

H: Human

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