#3155 Store at -20C

Phospho-CSF-1R/M-CSF-R (Tyr723) (49C10) Rabbit mAb



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

Applications: WB, IP, IHC-P	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 175	Source/Isotype: Rabbit IgG	UniProt ID: #P07333	Entrez-Gene Id: 1436	
Product Usage Information	Aŗ	plication		Dilution			
	We	Western Blotting				1:1000	
	Im	Immunoprecipitation				1:200	
	Im	munohistochemistry	(Paraffin)	1:300			
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 / Sens	Ro	Phospho-CSF-1R/M-CSF-R (Tyr723) (49C10) Rabbit mAb detects endogenous levels of CSF-1R/M-CSF-R only when phosphorylated at tyrosine 723. The antibody does not cross-react with related active protein tyrosine kinases.					
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr723 of human CSF-1R/M-CSF-R.					
Background	enc thei its r resi tyro Pho Tyri phe	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 Refe	2. E 3. E 4. N 5. E 6. N 7. T	 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

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

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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