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



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 175	Source/Isotype: Rabbit IgG	UniProt ID: #P07333	Entrez-Gene Id 1436
Product Usage Information	Ар	plication		Dilution		
	We	stern Blotting		1:1000		
	Imr	nunoprecipitation			1:100	
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	CSF	•	ohorylated at Tyr	F4Y) Rabbit mAb recognizes endogenous levels of CSF-1R/M- 08. This antibody may cross-react with other activated protein		
Species predicte react based on 10 sequence homological contractions of the contraction o	00%	ise, Rat				
Source / Purificat	•	,	,	nunizing animals with a synthetic phosphopeptide corresponding to SSF-1R/M-CSF-R protein.		
Background	ence	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).

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).

Background References

- 1. Stanley, E.R. et al. (1978) Nature 274, 168-70.
- 2. Byrne, P.V. et al. (1981) J Cell Biol 91, 848-53.
- 3. Bourette, R.P. and Rohrschneider, L.R. (2000) Growth Factors 17, 155-66.
- 4. Novak, U. et al. (1996) Oncogene 13, 2607-13.
- 5. Bourette, R.P. et al. (1997) EMBO J 16, 5880-93.
- 6. Morley, G.M. et al. (1999) Oncogene 18, 3076-84.
- 7. Toy, E.P. et al. (2001) Gynecol Oncol 80, 194-200.
- 8. Maher, M.G. et al. (1998) Clin Cancer Res 4, 1851-6.
- 9. Downing, J.R. et al. (1991) Mol Cell Biol 11, 2489-95.

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

1/1/24, 2:55 PM

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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 Dq: dog Pq: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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