ទុ CSF-1R/M-CSF-R (E4T8Z) Rabbit mAb





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Applications: W, W-S, IHC-Bond, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 140-200	Source/Isotype: Rabbit IgG	UniProt ID: #P07333	Entrez-Gene Id: 1436
Product Usage Information		ApplicationDilutionWestern Blotting1:1000Simple Western™1:50 - 1:250IHC Leica Bond1:200Immunohistochemistry (Paraffin)1:1000				
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. <i>Do not aliquot the antibody.</i> For a carrier free (BSA and azide free) version of this product see product #94863.				
Specificity/Sensitivity		CSF-1R/M-CSF-R (E4T8Z) Rabbit mAb recognizes endogenous levels of total CSF-1R/M-CSF-R protein. This antibody cross-reacts with an unidentified protein of 70 kDa in some cell extracts.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human 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		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 Reactiv	ity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting W-S: Simple Western™ IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin)				
Cross-Reactivity Key		H: Human				
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