Store at -20C

Phospho-FLT3 (Tyr842) (10A8) Rabbit mAb

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Applications: Reactive WB, IP H M		MW (kDa): 160	Source/Isotype: Rabbit IgG	UniProt ID: #P36888	Entrez-Gene Id: 2322		
Product Usage Information	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
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.						
Specificity / Sensitivity	Phospho-FLT3 (Tyr842) (10A8) Rabbit mAb detects endogenous levels of FLT3 only when phosphorylated at Tyr842. This antibody may cross-react with other tyrosine-phosphorylated family members.						
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to the sequence surrounding Tyr842 of human FLT3.						
Background	FMS-related tyrosine kinase 3 (FLT3, also called FLK2) is a member of the Type III receptor tyrosine kinase family, which includes c-Kit, PDGFR, and M-CSF receptors. FLT3 is expressed on early hematopoietic progenitor cells and supports growth and differentiation within the hematopoietic system (1,2). FLT3 is activated after binding with its ligand FL, which results in a cascade of tyrosine autophosphorylation and tyrosine phosphorylation of downstream substrates (3). The p85 subunit of PI3 kinase, SHP2, GRB2, and Shc have all been reported to associate with FLT3 after FL stimulation (4-6). Tyr589/591 is located in the juxtamembrane region of FLT3 and may play an important role in regulation of FLT3 tyrosine kinase activity. Somatic mutations of FLT3 consisting of internal tandem duplications (ITDs) occur in 20% of patients with acute myeloid leukemia (7).						
	Tyr842 is located in the activation loop of FLT3. Mutation of Tyr842 was identified in human AML patients (8).						
Background References 1. Shurin, M.R. et al. (1998) Cytokine Growth Factor Rev 9, 37-48. 2. Naoe, T. et al. (2001) Cancer Chemother Pharmacol 48 Suppl 1, S27-30. 3. Namikawa, R. et al. (1996) Stem Cells 14, 388-95. 4. Beslu, N. et al. (1996) J Biol Chem 271, 20075-81. 5. Zhang, S. and Broxmeyer, H.E. (2000) Biochem Biophys Res Commun 277, 195-9. 6. Zhang, S. et al. (1999) J Leukoc Biol 65, 372-80. 7. Mizuki, M. et al. (2000) Blood 96, 3907-14. 8. Kindler, T. et al. (2005) Blood 105, 335-340.							
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						
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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Limited Uses							

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