FLT3 (BV10A4H2) Mouse mAb (Pacific Blue[™] Conjugate)



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Product Usage Information	Application Flow Cytometry (Live)				
				Dilution 1:50	
Storage	Supplied in PBS (pH 7.2), antibody. Protect from lig		sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the ze.		
Specificity/Sensitivity	FLT3 (BV10A4H2) Mouse protein.	mAb (Pacific Blue™ Conjເ	Blue™ Conjugate) recognizes endogenous levels of total FLT3		
Source / Purification	BV10A4H2 clone is produced by immunizing animals with the leukemic cell line BV-173 and Antibody is purified from tissue culture supernatant via protein G chromatography.				
Description	This Cell Signaling Technology antibody is conjugated to Pacific Blue™ fluorescent dye and tested inhouse for direct flow cytometric analysis in human cells.				
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).				
Background References	2. Naoe, T. et al. (2001) <i>Ca</i> 3. Namikawa, R. et al. (19 4. Beslu, N. et al. (1996) <i>J</i> 5. Zhang, S. and Broxmey	1998) <i>Cytokine Growth Factor Rev</i> 9, 37-48. 1) <i>Cancer Chemother Pharmacol</i> 48 Suppl 1, S27-30. . (1996) <i>Stem Cells</i> 14, 388-95. 16) <i>J Biol Chem</i> 271, 20075-81. Imeyer, H.E. (2000) <i>Biochem Biophys Res Commun</i> 277, 195-9. 199) <i>J Leukoc Biol</i> 65, 372-80. 100) <i>Blood</i> 96, 3907-14.			

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key FC-L: Flow Cytometry (Live)

Cross-Reactivity Key H: Human

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