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CD34 (ICO115) Mouse mAb (PE Conjugate)

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

Applications: FC-L	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P28906	Entrez-Gene Id: 947
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Product Usage Information	Application Flow Cytometry (Live)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	CD34 (ICO115) Mouse mAb (PE Conjugate) detects endogenous levels of total CD34 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing BALB/c mice with blast cells of a chronic myeloid leukemia patient.	
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated CD34 (ICO115) Mouse mAb #3569.	
Background	CD34 is a type I transmembrane glycoprophosphoprotein expressed by hematopoietic stem/progenitor cells, vascular endothelium and some fibroblasts (1). CD34 expression has been the hallmark used to identify hematopoietic stem cells for many years. CD34+ hematopoietic stem cells expand and differentiate into all the lymphohematopoietic lineages upon cytokine or growth factor stimulation and lose CD34 expression upon differentiation. However, recent studies performed in various laboratories conflict with that convention (2). The extracellular domain of CD34 is homologous to CD43, a protein involved in cell-cell adhesion, and CD34 has been shown to function as a negative regulator of cell adhesion (3). CD34 associates with CrkL but not CrkII, is a substrate for PKC, and activation of PKC is coupled with surface expression of CD34 (1,4).	
Background References	<ol style="list-style-type: none"> 1. Felschow, D. M. et al. (2001) <i>Blood</i> 97, 3768-3775. 2. Sato, T. et al. (1999) <i>Blood</i> 94, 2548-2554. 3. Drew, E. et al. (2005) <i>Immunity</i> 22, 43-57. 4. Fackler, M. J. et al. (1992) <i>J. Biol. Chem.</i> 267, 17540-17546. 	

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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