e at -20C	CD34 (ICO115) Mouse mAb		Cell Signaling	
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For Besserah Lles Only	Alot for Lloo in	Diagnostia Dragoduros
FOR Research Use Unit	y. NOU IOF USE IN	Diagnostic Procedures.

Applications: IHC-P, FC-L	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Mouse IgG1	UniProt ID: #P28906	Entrez-Gene Id: 947		
Product Usage	Ap	Application		Dilution				
Information		munohistochemistry	. ,		1:50			
	Flo	ow Cytometry (Live)			1:200 - 1:400			
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.						
	For	a carrier free (BSA	and azide free) v	ersion of this product se	e product #41101.			
Specificity / Sensi	itivity CD	CD34 (ICO115) Mouse mAb 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.						
Background		CD34 is a type I transmembrane glycophosphoprotein 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 Refe	2. S 3. D	 Felschow, D. M. et al. (2001) Blood 97, 3768-3775. Sato, T. et al. (1999) Blood 94, 2548-2554. Drew, E. et al. (2005) Immunity 22, 43-57. Fackler, M. J. et al. (1992) J. Biol. Chem. 267, 17540-17546. 						
Species Reactivit	y Spec	cies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	estern blot).		
Applications Key	IHC	IHC-P: Immunohistochemistry (Paraffin) FC-L: Flow Cytometry (Live)						
Cross-Reactivity Key		 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaste 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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