e at -20C	MCAM (P1H12) Mouse mAb		Cell Signaling	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Re WB, IP, IF-IC, FC-FP	eactivity: Sensitiv H Endoge		Source/Isotype: Mouse IgG1	UniProt ID: #P43121	Entrez-Gene Id: 4162		
Product Usage	Application				Dilution		
Information	Western Blottir	ng			1:1000		
	Immunoprecipi	tation			1:100		
	Immunofluores	cence (Immunocytoche	mistry)		1:100		
	Flow Cytometry	y (Fixed/Permeabilized)			1:200		
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>					
Specificity / Sensitivit	у МСАМ (Р1Н12)	MCAM (P1H12) Mouse mAb recognizes endogenous levels of total MCAM protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human MCAM protein.					
Background	originally descri melanoma (1,2) lymphocytes, sr MCAM expressi disease, Crohn' human mesencl maintaining the between hMSC also, in part, pla role in multiple s neurons. Endotl	Melanoma cell adhesion molecule (MCAM, MUC18, CD146) is an immunoglobulin superfamily member originally described as a cell surface adhesion protein and marker of the progression and metastasis of melanoma (1,2). Expression of MCAM protein is seen in vascular endothelial cells, activated T lymphocytes, smooth muscle, and bone marrow stromal cells. Research studies demonstrate increased MCAM expression in endothelial cells from angiogenesis-related disorders, including inflammatory bowel disease, Crohn's disease, rheumatoid arthritis, tumors, and chronic renal failure (3). MCAM-expressing human mesenchymal stromal cells (hMSC) in the hematopoietic microenvironment are responsible for maintaining the self-renewal of hematopoietic stem and progenitor cells (HSPC) through direct contact between hMSC and HSPC (2). Related studies suggest that activation of the Notch signaling pathway may also, in part, play a role in HSPC maintenance (4). Additional research indicates that MCAM may play a role in multiple sclerosis, an autoimmune inflammatory disease that affects central nervous system neurons. Endothelial MCAM within the blood-brain barrier act as adhesion receptors that permit lymphocytes to transmigrate across the barrier and produce the inflammatory lesions that characterize the disorder (5).					
Background Referenc	2. Stopp, S. et a 3. Wang, P. et a 4. Corselli, M. e	 Shih, I.M. (1999) J Pathol 189, 4-11. Stopp, S. et al. (2013) Haematologica 98, 505-13. Wang, P. et al. (2013) Mol Cell Biol 33, 3689-99. Corselli, M. et al. (2013) Blood 121, 2891-901. Duan, H. et al. (2013) Sci Rep 3, 1687. 					
Species Reactivity	Species reactivit	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 IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity Key	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				-		
Trademarks and Patents	0 0	chnology is a trademarl d trademark of Cell Sigr	of Cell Signaling Technology, Inc.	ology, Inc.			

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