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CD31 (PECAM-1) (89C2) Mouse mAb (Alexa Fluor® 594 Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-IC	H	Endogenous	Mouse IgG1 kappa	#P16284	5175

Product Usage Information	Application	Dilution
	Immunofluorescence (Immunocytochemistry)	1:100 - 1:200
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. <i>Do not aliquot the antibody. Protect from light. Do not freeze.</i>	
Specificity/Sensitivity	CD31 (PECAM-1) (89C2) Mouse mAb (Alexa Fluor® 594 Conjugate) detects endogenous levels of total CD31 protein. It does not cross-react with other related proteins.	
Source / Purification Description	Monoclonal antibody is produced by immunizing animals with recombinant human CD31 protein. This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 594 fluorescent dye and tested in-house for direct immunofluorescent analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated CD31 (PECAM-1) (89C2) Mouse mAb #3528.	
Background	CD31 (Platelet Endothelial Cell Adhesion Molecule-1: PECAM-1), a member of the Ig superfamily of cell adhesion molecules, is expressed by circulating platelets, monocytes, neutrophils, some T cells, and endothelial cells and modulates cell adhesion, endothelial cell migration, and angiogenesis (1). CD31 is phosphorylated on Tyr686 at the cytoplasmic carboxy-terminal tail upon various stimuli (e.g. mechanical or oxidative stress), presumably by Src family members (2). The tyrosine phosphorylation mediates associations with a number of SH2 domain-containing binding partners such as PI3 kinase, SHIP, PLCγ, and SHP-2. Thus, CD31 serves as a scaffold for various signaling molecules (3).	
Background References	<ol style="list-style-type: none"> 1. Newman, P.J. (1997) <i>J. Clin. Invest.</i> 99, 3-8. 2. Cao, M. Y. et al. (1998) <i>J. Biol. Chem.</i> 273, 15765-72. 3. Ilan, N. and Madri, J.A. (2003) <i>Curr. Opin. Cell Biol.</i> 15, 515-24. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry)	
Cross-Reactivity Key	H: Human	
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