Store at -200

## CD31 (PECAM-1) (89C2) Mouse



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<b>Applications:</b> WB, IP, IHC-P, IF-IC	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 130	Source/Isotype: Mouse IgG1	UniProt ID: #P16284	Entrez-Gene Id: 5175	
Product Usage Information	Ар	Application			Dilution		
	We	estern Blotting		1:1000			
	Imi	munoprecipitation		1:50			
	Imi	munohistochemistry	(Paraffin)	1:800 - 1:3200			
	Imi	munofluorescence (I	mmunocytochen	1:800 - 1:3200			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #85873.					
Specificity / Sensi		31 (PECAM-1) (89C ct with other related		ls of total CD31 protei	n. It does not cross-		
Source / Purification	on Mor	Monoclonal antibody is produced by immunizing animals with recombinant human CD31 protein.					
Background	adh end pho oxic ass	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, PLCy, and SHP-2. Thus, CD31 serves as a scaffold for various signaling molecules (3).					
Background Refer	2. C	<ol> <li>Newman, P.J. (1997) J. Clin. Invest. 99, 3-8.</li> <li>Cao, M. Y. et al. (1998) J. Biol. Chem. 273, 15765-72.</li> <li>Ilan, N. and Madri, J.A. (2003) Curr. Opin. Cell Biol. 15, 515-24.</li> </ol>					

**Species Reactivity** 

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

**IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

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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CD31 (PECAM-1) (89C2) Mouse mAb (#3528) Datasheet Without Images Cell Signaling Technology

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