Store at -200

CD31 (PECAM-1) (89C2) Mouse



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Applications: WB, IP, IHC-P, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Mouse IgG1	UniProt ID: #P16284	Entrez-Gene Id: 5175	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting		1:1000			
	Imr	nunoprecipitation		1:50			
	Imr	munohistochemistry	(Paraffin)	1:800 - 1:3200			
	Imr	munofluorescence (Immunocytochen	1:800 - 1:3200			
Storage	0.02	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) version of this product see product #85873.					
Specificity / Sensiti	cificity / Sensitivity CD31 (PECAM-1) (89C2) Mouse mAb detects endogenous lereact with other related proteins.				rels of total CD31 protein. It does not cross-		
Source / Purification	n Mon	noclonal antibody is	produced by imn	nunizing animals with re	combinant human CD	31 protein.	
Background	adh end pho oxid asso	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 Refere	2. C	 Newman, P.J. (1997) J. Clin. Invest. 99, 3-8. Cao, M. Y. et al. (1998) J. Biol. Chem. 273, 15765-72. Ilan, N. and Madri, J.A. (2003) Curr. Opin. Cell Biol. 15, 515-24. 					

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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