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CD31 (PECAM-1) (89C2) Mouse mAb (Alexa Fluor® 555 Conjugate)

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

Applications: IHC-P, IF-IC	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P16284	Entrez-Gene Id: 5175
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Product Usage Information

Application

Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)

Dilution

1:200 - 1:800
1:200 - 1:400

Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. *Do not aliquot the antibody. Protect from light. Do not freeze.*

Specificity/Sensitivity

CD31 (PECAM-1) (89C2) Mouse mAb (Alexa Fluor® 555 Conjugate) detects endogenous levels of total CD31 protein. This antibody does not cross-react with other related proteins.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant human CD31 protein.

Description

This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 555 fluorescent dye. 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

- 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).

Applications Key

IHC-P: Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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