

Store at
-20C
#77699**CD31 (PECAM-1) (D8V9E) XP[®] Rabbit mAb**

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

Applications: W, W-S, IHC-Bond, IHC-P	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 135	Source/Isotype: Rabbit IgG	UniProt ID: #P16284	Entrez-Gene Id: 5175
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Product Usage Information**Application**

Western Blotting
Simple Western™
IHC Leica Bond
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:10 - 1:50
1:50 - 1:200
1:50 - 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. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #92841.

Specificity/Sensitivity

CD31 (PECAM-1) (D8V9E) XP[®] Rabbit mAb recognizes endogenous levels of total CD31 (PECAM-1) protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala451 of mouse CD31 (PECAM-1) protein.

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

1. Newman, P.J. (1997) *J. Clin. Invest.* 99, 3-8.
2. Cao, M. Y. et al. (1998) *J. Biol. Chem.* 273, 15765-72.
3. 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 BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **W-S:** Simple Western™ **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

M: Mouse

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