

Store at
-20°C
#16537

Total CD31 (PECAM-1) Matched Antibody Pair



Orders: 877-616-CELL (2355)
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Species Cross Reactivity: H
UniProt ID: #P16284
Entrez-Gene Id: #5175

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

Product Includes	Product #	Quantity	Isotype/Source
CD31 (PECAM-1) (89C2) Mouse mAb (BSA and Azide Free)	85873	100 µg	Mouse IgG1
CD31 (PECAM-1) (158-2B3) Mouse mAb (BSA and Azide Free)	89852	100 µg	Mouse IgG1

Description	<p>The Total CD31 (PECAM-1) Matched Antibody Pair is ideal for use with immunoassay technologies and high throughput ELISA platforms requiring antibody pairs with specialized or custom antibody labeling. Labels include fluorophores, lanthanides, biotin, and beads. Platforms requiring conjugated Matched Antibody Pairs include MSD, Quanterix Simoa, Alpha Technology (AlphaScreen, AlphaLISA, LANCE, HTRF), and Luminex.</p> <p>Learn how Matched Antibody Pairs move your projects forward, faster at cst-science.com/matched-antibody-pairs.</p>
Specificity/Sensitivity	This kit detects proteins from the indicated species, as determined through in-house testing, but may also detect homologous proteins from other species.
Storage	Store at -20°C. <i>This product will freeze at -20°C so it is recommended to aliquot into single-use vials to avoid multiple freeze/thaw cycles.</i> A slight precipitate may be present and can be dissolved by gently vortexing. This will not interfere with antibody performance.
Directions for Use	Matched Antibody Pairs include capture and detection antibodies to non-overlapping epitopes. Optimal dilutions/concentrations should be determined by the end user.
Formulation	Supplied in 1X PBS (10 mM Na ₂ HPO ₄ , 3 mM KCl, 2 mM KH ₂ PO ₄ , and 140 mM NaCl (pH 7.8)). BSA and Azide Free.
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.

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