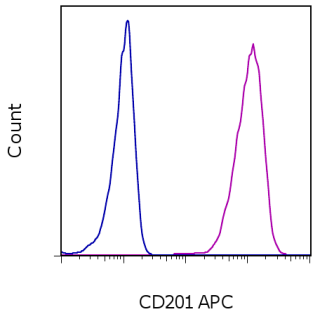
Anti-Human CD201 (EPCR) APC

Catalog Number: 17-2018
Also known as: Endothelial protein C receptor
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of HUVECs with Rat IgG1 K Isotype Control APC (cat. 17-4301) (blue histogram) or Anti-Human CD201 (EPCR) APC (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD201 (EPCR) APC
REF **Catalog Number:** 17-2018
Clone: RCR-227
Concentration: 5 uL (0.125 ug)/test
Host/Isotype: Rat IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial

Description

The monoclonal antibody RCR-227 reacts with human CD201, which is also known as the endothelial protein C receptor (EPCR), a 46-kDa transmembrane protein related to class I MHC. CD201 was originally identified on vascular endothelium cells, predominantly larger blood vessels. It is also expressed on monocytes, lymphocytes, hematopoietic stem cells, neutrophils, and eosinophils. CD201 serves as a binding site for protein C, activated protein C (APC), and factor VII/VIIa. A soluble form has also been identified in the plasma. CD201 plays a role in controlling coagulation as disruption of its gene in mice caused placental thrombosis and early embryonic death. This cell surface molecule is also involved in the anti-inflammatory response. APC binding to CD201 enables PAR-1 activation that confers cytoprotective effects. In monocytes, APC binding decreases secretion of proinflammatory cytokines, chemokines, and growth factors. Finally, CD201 has been shown to inhibit lymphocyte migration.

Applications Reported

This RCR-227 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This RCR-227 antibody has been pre-titrated and tested by flow cytometric analysis of HUVECs. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

Guitton C, Gérard N, Quillard T, Charreau B. Circulation Endothelial Cell Protein C Receptor: Endothelial Regulation and Cumulative Impact of Gender and A3 Haplotype. J Vasc Res. 2011;48(4):336-46.

Crawley JTB. Multiple roles of the endothelial cell protein C receptor. J Thromb Haemost. 2007 Sep;5(9):1813-6.

Villegas-Mendez A, Montes R, Ambrose LR, Warrens AN, Laffan M, Lane DA. Proteolysis of the endothelial cell protein C receptor by neutrophil proteinase 3. J Thromb Haemost. 2007 May;5(5):980-8.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com

Anti-Human CD201 (EPCR) APC

Catalog Number: 17-2018
Also known as: Endothelial protein C receptor
RUO: For Research Use Only. Not for use in diagnostic procedures.

Stephenson DA, Toltl LJ, Beaudin S, Liaw PC. Modulation of Monocyte Function by Activated Protein C, a Natural Anticoagulant.J Immunol. 2006 Aug 15;177(4):2115-22.

Feistritzer C, Mosheimer BA, Sturn DH, Riewald M, Patsch JR, Wiedermann CJ. Endothelial Protein C Receptor Dependent Inhibition of Migration of Human Lymphocytes by Protein C Involves Epidermal Growth Factor Receptor. J Immunol. 2006 Jan 15;176(2):1019-25.

Related Products
17-4301 Rat IgG1 K Isotype Control APC

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com