

# CD201 (EPCR) Monoclonal Antibody (RCR-227), APC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RCR-227
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11040526

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	5 Publications

## Product Specific Information

**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.

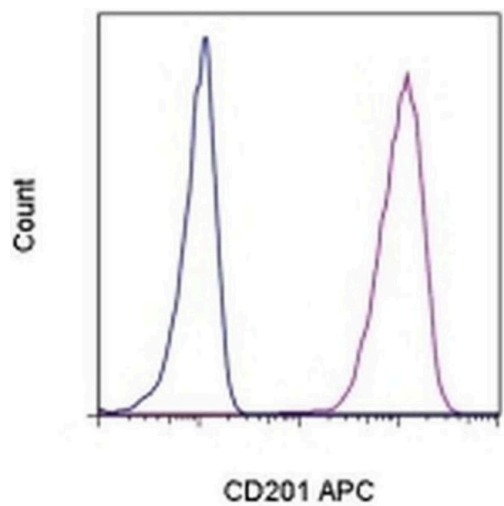
**Applications Reported:** This RCR-227 antibody has been reported for use in flow cytometric analysis.

**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<sup>5</sup> to 10<sup>8</sup> cells/test.

**Excitation:** 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

Product Images For CD201 (EPCR) Monoclonal Antibody (RCR-227), APC, eBioscience™



**CD201 (EPCR) Antibody (17-2018-42) in Flow**  
Staining of HUVECs with Rat IgG1 K Isotype Control APC (Product # 17-4301-82) (blue histogram) or Anti-Human CD201 (EPCR) APC (purple histogram). Total viable cells were used for analysis.

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5 References

Flow Cytometry (5)

<p><b>Signal transduction and targeted therapy</b></p> <p><b>Protein C receptor maintains cancer stem cell properties via activating lipid synthesis in nasopharyngeal carcinoma.</b></p> <p>"Published figure using CD201 (EPCR) monoclonal antibody (Product # 17-2018-42) in Flow Cytometry"</p> <p>Authors: Zhang P,He Q,Wang Y,Zhou G,Chen Y,Tang L,Zhang Y,Hong X,Mao Y,He Q,Yang X,Liu N,Ma J</p>	<p><b>Year</b> 2022</p>
<p><b>BMC biotechnology</b></p> <p><b>Lentiviral CRISPR-guided RNA library screening identified Adam17 as an upstream negative regulator of Procr in mammary epithelium.</b></p> <p>"17-2018-42 was used in Flow cytometry/Cell sorting to establish an efficient CRISPR-Cas9/FACS screening system, which identifies the regulators of membrane proteins."</p> <p>Authors: Wu T,Wang Y,Xiao T,Ai Y,Li J,Zeng YA,Yu QC</p>	<p><b>Year</b> 2021</p> <p><b>Species</b> Human</p> <p><b>Dilution</b> 1:200</p>

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