

CD201 (EPCR) Monoclonal Antibody (eBio1560 (1560)), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio1560 (1560)
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10718383

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	6 Publications

Product Specific Information

Description: The eBio1560 monoclonal antibody reacts with mouse Endothelial Protein C Receptor (EPCR, CD201), a 25 kDa Type 1 transmembrane protein expressed on endothelial cells. EPCR exhibits sequence and structural homology with the MHC class I/CD1 family of proteins. EPCR is a ligand for Protein C and plays an important role in augmenting Protein C activation by the thrombin-thrombomodulin complex and in regulating blood coagulation and inflammation. Deletion of EPCR results in embryonic lethality, at least partially due to placental thrombosis.

Recently, it was demonstrated that EPCR expression identified cells in the bone marrow that are capable of hematopoietic reconstitution activity comparable to hematopoietic stem cells isolated with conventional methods. The eBio1560 monoclonal antibody can be used for the detection of these hematopoietic stem cells, however the eBiomRCR-16 monoclonal antibody should only be used for the detection of CD201 on endothelial cells.

Applications Reported: This eBio1560 (1560) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBio1560 (1560) antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.5 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is

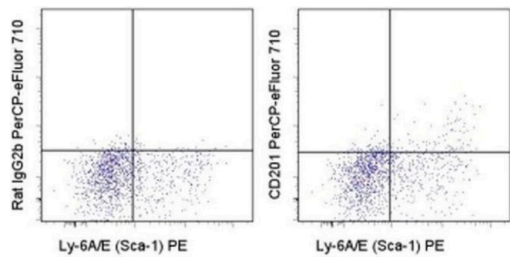
excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD201 (EPCR) Monoclonal Antibody (eBio1560 (1560)), PerCP-eFluor™ 710, eBioscience™



CD201 (EPCR) Antibody (46-2012-80) in Flow
Staining of C57Bl/6 bone marrow cells with Anti-Mouse Ly-6A/E (Sca-1) PE (Product # 12-5981-82) and 0.25 µg of Rat IgG2b K Isotype Control PerCP-eFluor® 710 (Product # 46-4031-82) (left) or 0.25 µg of Anti-Mouse CD201 (EPCR) PerCP-eFluor® 710 (right). Cells were also stained with Fixable Viability Dye eFluor® 780 (Product # 65-0865-14), Anti-Mouse CD117 (c-Kit) APC (Product # 17-1171-82), and Mouse Hematopoietic Lineage Cocktail eFluor® 450 (Product # 88-7772-72). Viable, lineage negative/low, CD117+ cells in the large scatter population were used for analysis.

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6 References

Flow Cytometry (6)

<p>The Journal of clinical investigation</p> <p>Immune synapses between mast cells and T cells limit viral infection.</p> <p>"Published figure using CD201 (EPCR) monoclonal antibody (Product # 46-2012-80) in Flow Cytometry"</p> <p>Authors: Mantri CK,St John AL</p>	<p>Year</p> <p>2019</p>
<p>Nature medicine</p> <p>PAR1 signaling regulates the retention and recruitment of EPCR-expressing bone marrow hematopoietic stem cells.</p> <p>"46-2012 was used in Flow cytometry/Cell sorting to study long-term repopulating hematopoietic stem cells, showing that PAR1 signaling regulates the retention and recruitment of EPCR-expressing hematopoietic stem cells."</p> <p>Authors: Gur-Cohen S,Itkin T,Chakrabarty S,Graf C,Kollet O,Ludin A,Golan K,Kalinkovich A,Ledergor G,Wong E, Niemeyer E,Porat Z,Erez A,Sagi I,Esmon CT,Ruf W,Lapidot T</p>	<p>Year</p> <p>2015</p> <p>Species</p> <p>Mouse</p>

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