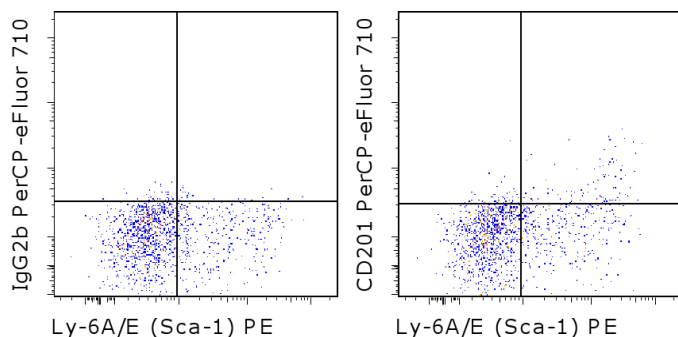


## Anti-Mouse CD201 (EPCR) PerCP-eFluor<sup>®</sup> 710

**Catalog Number:** 46-2012

**Also known as:** Endothelial Protein C Receptor

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



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

### Product Information

**Contents:** Anti-Mouse CD201 (EPCR)  
PerCP-eFluor<sup>®</sup> 710

**REF** **Catalog Number:** 46-2012

**Clone:** eBio1560 (1560)

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Rat IgG2b, 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.

**Batch Code:** Refer to vial

**Use By:** Refer to vial



**LOT**



### 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 eBiomRRC-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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor<sup>®</sup> 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor<sup>®</sup> 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<sup>®</sup> 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.

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Click here or contact eBioscience Technical Support for more information on eFluor™ Organic Dyes including PerCP-eFluor® 710.

### References

alazs AB, Fabian AJ, Esmon CT, Mulligan RC. Endothelial protein C receptor (CD201) explicitly identifies hematopoietic stem cells in murine bone marrow. *Blood*. 2006 Mar 15;107(6):2317-21. Epub 2005 Nov 22. (1560, FC, FA, PubMed)

Fukudome K, Esmon CT. Molecular cloning and expression of murine and bovine endothelial cell protein C/activated protein C receptor (EPCR). The structural and functional conservation in human, bovine, and murine EPCR. *J Biol Chem*. 1995 Mar 10;270(10):5571-7.

Li W, Zheng X, Gu JM, Ferrell GL, Brady M, Esmon NL, Esmon CT. Extraembryonic expression of EPCR is essential for embryonic viability. *Blood*. 2005 Oct 15;106(8):2716-22.

### Related Products

17-1171 Anti-Mouse CD117 (c-Kit) APC (2B8)

45-5981 Anti-Mouse Ly-6A/E (Sca-1) PerCP-Cy5.5 (D7)

46-4031 Rat IgG2b K Isotype Control PerCP-eFluor® 710

65-0865 Fixable Viability Dye eFluor® 780

88-7772 Mouse Hematopoietic Lineage eFluor® 450 Cocktail (17A2, RA3-6B2, M1/70, TER-119, RB6-8C5)

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