Antibodies

Anti-Mouse EPCR Antibody, Clone RMEPCR1560 (1560), Biotin

Rat monoclonal IgG2b antibody against mouse EPCR (CD201), biotin-conjugated

Catalog #60038BT

100 µg 0.2 mg/mL

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Product Description

The RMEPCR1560 (1560) antibody reacts with the endothelial protein C receptor (EPCR or CD201), an ~25 kDa type I transmembrane glycoprotein expressed by endothelial cells, subsets of hematopoietic stem cells (HSCs) and dendritic cells, and several malignant cell lines. It is also found in a soluble form in plasma. EPCR exhibits homology with the MHC class 1/CD1 protein family. EPCR binds protein C and activated protein C, thus augmenting protein C activation by the thrombin-thrombomodulin complex and regulating blood coagulation and inflammation. EPCR protein expression has been detected on ~1.5% of mouse bone marrow cells. Purified EPCR+ cells are highly enriched for HSC activity, as evidenced by high in vivo repopulation activity. Moreover, EPCR expression is associated with the stem cell activity of bone marrow cell populations isolated using conventional markers, indicating the usefulness of EPCR as a single marker for the identification of mouse HSCs.

Target Antigen Name:	EPCR (CD201)
Alternative Names:	Activated protein C receptor, APC receptor, CCD41, CD201, endothelial protein C receptor, PROCR, protein C receptor
Gene ID:	19124
Species Reactivity:	Mouse
Host Species:	Rat
Clonality:	Monoclonal
Clone:	RMEPCR1560 (1560)
Isotype:	IgG2b, kappa
Immunogen:	Soluble form of mouse EPCR protein
Conjugate:	Biotin

Applications

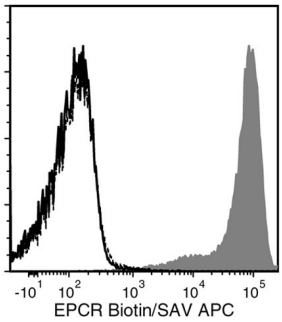
Verified:	CellSep, FC
Reported:	FC, IHC, WB

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered saline containing < 0.1% (w/v) sodium azide and < 0.1% (w/v) bovine serum albumin
Purification:	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry the suggested use of this antibody is ≤ 0.5 µg per 1 x 10^6 cells in 100 µL volume in combination with fluorescently conjugated avidin or streptavidin. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Flow cytometry analysis of HEK-293 mEPCR-transfected cells (filled histogram) or non-transfected HEK-293 cells (negative control; dashed line histogram), labeled with Anti-Mouse EPCR Antibody, Clone RMEPCR1560 (1560), Biotin, followed by streptavidin (SAV) APC. Labeling of HEK-293 mEPCR-transfected cells with a rat IgG2b, kappa isotype control antibody, followed by SAV APC is shown (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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