Technical Data Sheet

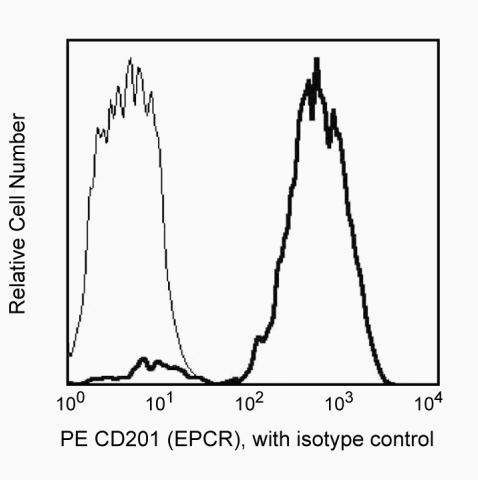
PE Rat Anti-Human CD201

Product Information

Material Number:	**557950**
Alternate Name:	EPCR
Size:	100 tests
Vol. per Test:	20 µl
Clone:	RCR-252
Isotype:	Rat IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VII 70424
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with endothelial cell protein C receptor (EPCR), a 25 kDa, type I transmembrane glycoprotein, expressed on endothelial cells in arteries, veins and capillaries. EPCR is also referred to as CD201. It binds protein C and augments its activation. Reports indicate that EPCR is expressed on several malignant cell lines. Malignant cell lines that express EPCR also show significant levels of protein C activation and this activation could be inhibited by anti-EPCR antibody.



Profile of anti-CD201 (EPCR), clone RCR-252, reactivity on ECV-304 cells analyzed by flow cytometry

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.
Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested

Recommended Assay Procedure:

This product is routinely tested on ECV-304 cells.

Suggested Companion Products

Catalog Number	Name	Size	Clone
553925	PE Rat IgG1, κ Isotype Control	0.1 mg	R3-34

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10^6 cells in a 100-µl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Biguzzi E, Merati G, Liaw PC, et al. A 23bp insertion in the endothelial protein C receptor (EPCR) gene impairs EPCR function. *Thromb Haemost.* 2001; 86(4):945-948. (Biology)

Mason D, Andre P, Bensussan A, ed. *Leukocyte Typing VII.* New York: Oxford University Press; 2002. (Clone-specific)

Tsuneyoshi N, Fukudome K, Horiguchi S, et al. Expression and anticoagulant function of the endothelial cell protein C receptor (EPCR) in cancer cell lines. *Thromb Haemost.* 2001; 85(2):356-361. (Biology)