

Technical Data Sheet

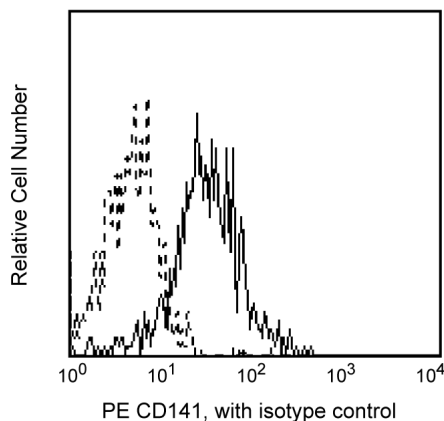
PE Mouse Anti-Human CD141

Product Information

Material Number:	559781
Alternate Name:	Thrombomodulin
Size:	100 tests
Vol. per Test:	20 µl
Clone:	1A4
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VI E013
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with a 75 kDa, a single chain, type I membrane glycoprotein referred to as thrombomodulin and fetomodulin. CD141 is expressed on endothelial cells, smooth muscle cells, epithelial cells, synovial lining cells, and keratinocytes. It is also found on megakaryocytes, peripheral blood monocytes, and neutrophils, but not on lymphocytes. Reports indicate that CD 141 plays an important role in Protein C activation and the initiation of the Protein C anticoagulant pathway. Thrombin loses its procagulant function when it binds to CD141, and the CD141/thrombin complex is able to activate Protein C.



Profile of peripheral blood monocytes 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
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 tests	MOPC-21

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. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
5. 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.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Kishimoto T, von dem Borne AEG, Goyert SM, et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens*. London: Garland Publishing; 1997.

(Clone-specific)

Teasdale MS, Bird CH, Bird P. Internalization of the anticoagulant thrombomodulin is constitutive and does not require a signal in the cytoplasmic domain.

Immunol Cell Biol

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