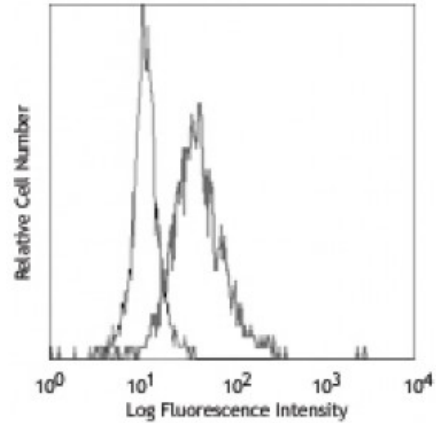


Purified anti-human CD141 (Thrombomodulin)

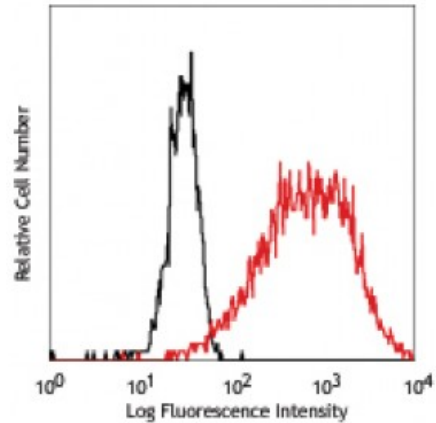
Catalog # / Size: 2320510 / 100 µg
Clone: M80
Isotype: Mouse IgG1, κ
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5



Human peripheral blood monocytes stained with M80 PE

Applications:

Applications: Flow Cytometry
Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 2.0 microg per 10⁶ cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.



LPS-stimulated (overnight) human peripheral blood mononuclear cells stained with M80 PE (gated on CD14+ cells)

Description: CD141 is a 75 kD, single chain, type I membrane glycoprotein also known as thrombomodulin, TM, THRM, THBD, and fetomodulin. CD141 is an important cofactor in the protein C anticoagulant system. After binding to its ligand thrombin, CD141 activates protein C, which degrades clotting factors Va and VIIIa, and as a consequence the amount of thrombin is reduced. CD141 is expressed on macrophages, monocytes, a subpopulation of myeloid dendritic cells, vascular endothelial cells, and keratinocytes. Besides anti-coagulation function, CD141 is also involved in embryonic and atherosclerotic plaque development.

- Antigen References:**
1. Suzuki K, *et al.* 1987. *EMBO J.* 6:1891.
 2. Esmon CT, *et al.* 1989. *J. Biol. Chem.* 264:4743.
 3. Delvaeye M, *et al.* 2009. *N. Engl. J. Med.* 361:345.
 4. Shi CS, *et al.* 2008.