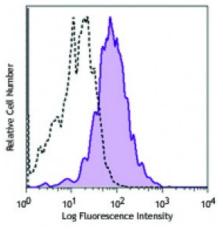
Product Data Sheet

PE/Cy7 anti-human CD141 (Thrombomodulin)

Catalog # / Size:	2320550 / 100 tests 2320545 / 25 tests
Clone:	M80
Isotype:	Mouse IgG1, к
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	Lot-specific



LPS-stimulated (overnight) human peripheral blood monocytes were stained with CD141 (clone M80) PE/Cy7 (filled histogram) or mouse IgG1, ĸ PE/Cy7 isotype control (open histogram). Data shown was gated on the CD14+ cell population.

Applications:

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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 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application References:	1. Lee J, <i>et al.</i> 2015. <i>J Exp Med.</i> 212:385. <u>PubMed</u> 2. Breton G, <i>et al.</i> 2015. <i>J Exp Med.</i> 212:401. <u>PubMed</u>
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, <i>et al.</i> 1987. <i>EMBO J.</i> 6:1891. 2. Esmon CT, <i>et al.</i> 1989. <i>J. Biol. Chem.</i> 264:4743. 3. Delvaeye M, <i>et al.</i> 2009. <i>N. Engl. J. Med.</i> 361:345. 4. Shi CS, <i>et al.</i> 2008.

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