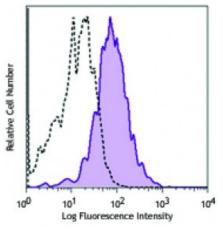
Product Data Sheet

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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