

30-2905: Anti-Hu CD141 Mab (M80)

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| Clonality : | Monoclonal |
| Clone Name : | M80 |
| Application : | FACS |
| Reactivity : | Human |
| Gene : | THBD |
| Gene ID : | 7056 |
| Uniprot ID : | P07204 |
| Format : | Purified |
| Alternative Name : | Thrombomodulin, fetomodulin, THBD, THRM, THPH12, TM |
| Isotype : | Mouse IgG1 |
| Immunogen Information : | MV4-11 cell line |

Description

Specificity: The mouse monoclonal antibody M80 recognizes an extracellular epitope of CD141, a 75 kDa transmembrane glycoprotein expressed mainly on macrophages, monocytes, platelets and endothelial cells.

CD141, also known as thrombomodulin or fetomodulin, is a single chain type I transmembrane glycoprotein serving as a receptor for thrombin and as an important cofactor in the protein C anticoagulant system, but it is also involved in embryonic and atherosclerotic plaque development. CD141 is expressed mainly on macrophages, monocytes, a subpopulation of myeloid dendritic cells, on platelets and endothelial cells, but also e.g. on keratinocytes (epithelium). After binding to thrombin, CD141 activates protein C, which degrades clotting factors Va and VIIIa, and as a consequence the amount of thrombin is reduced. Mutations in the CD141 gene can cause a thromboembolic disease known as inherited thrombophilia.

Product Info

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| Amount : | 0.1 mg |
| Purification : | Purified by protein-A affinity chromatography. |
| Content : | Concentration: 1 mg/ml Storage Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Storage condition : | Store at 2-8°C. Do not freeze. |

Application Note

Flow cytometry: Recommended dilution: 1-5 µg/ml

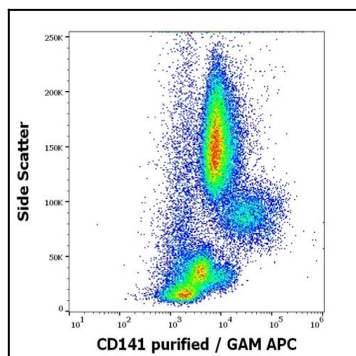


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD141 (M80) purified antibody (concentration in sample 5 1/4g/ml, GAM APC).

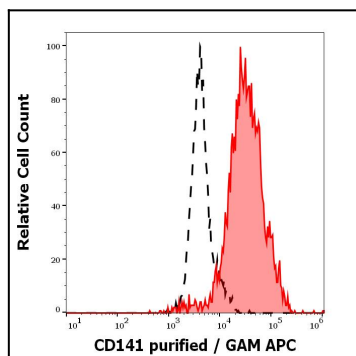


Figure 2: Separation of human monocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD141 (M80) purified antibody (concentration in sample 5 1/4g/ml, GAM APC).