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Datasheet for ABIN7505855

## anti-Thrombomodulin antibody

### 2 Images

#### Overview

|              |   |
|--------------|---|
| Quantity:    | 0.1 mg  |
| Target:      | Thrombomodulin (THBD)                         |
| Reactivity:  | Human   |
| Host:        | Mouse   |
| Clonality:   | Monoclonal                                    |
| Conjugate:   | This Thrombomodulin antibody is un-conjugated |
| Application: | Flow Cytometry (FACS)                         |

#### Product Details

|               |  |
|---------------|--|
| Purpose:      | Anti-Hu CD141 Purified   |
| Immunogen:    | MV4-11 cell line   |
| Clone:        | M80  |
| Isotype:      | IgG1   |
| 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. |
| Purification: | Purified by protein-A affinity chromatography.   |

#### Target Details

|         |                       |
|---------|-----------------------|
| Target: | Thrombomodulin (THBD) |
|---------|-----------------------|

## Target Details

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|                   |   |
|-------------------|---|
| Alternative Name: | CD141 ( <a href="#">THBD Products</a> )   |
| Background:       | Thrombomodulin,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.,Thrombomodulin, fetomodulin, THBD, THRM, THPH12, TM |
| Gene ID:          | 7056  |
| UniProt:          | <a href="#">P07204</a>  |

## Application Details

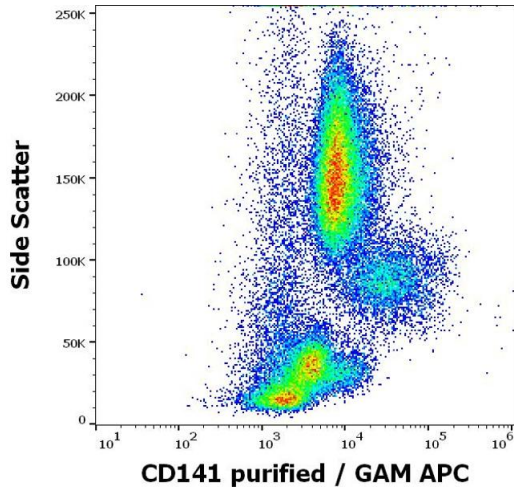
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|                    |   |
|--------------------|---|
| Application Notes: | Flow cytometry: Recommended dilution: 1-5 µg/mL |
| Restrictions:      | For Research Use only                           |

## Handling

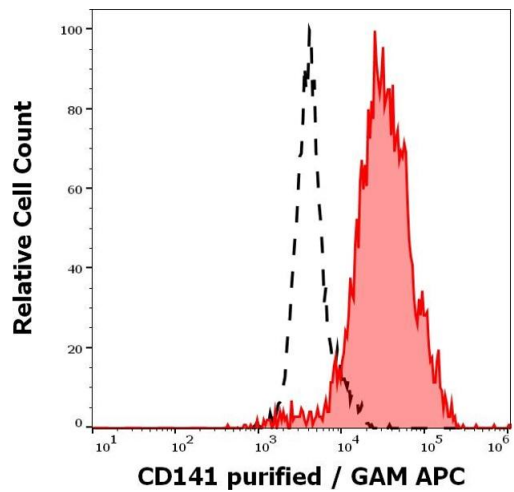
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|                    |  |
|--------------------|--|
| Concentration:     | 1 mg/mL  |
| Buffer:            | Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide  |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | 4 °C   |
| Storage Comment:   | Store at 2-8°C. Do not freeze.   |



### Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD141 (M80) purified antibody (concentration in sample 5 µg/mL, GAM APC).



### Flow Cytometry

**Image 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 µg/mL, GAM APC).