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# 30-2654: Anti-Human CD142 PE (Clone : HTF-1)

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| **Clonality :** | Monoclonal |
| **Clone Name :** | HTF-1 |
| **Application :** | FACS |
| **Reactivity :** | Human |
| **Conjugate :** | PE |
| **Gene :** | F3 |
| **Gene ID :** | 2152 |
| **Alternative Name :** | F3, tissue factor, tissue thromboplastin, coagulation factor III, TF, TFA,coagulation factor III, tissue factor |
| **Isotype :** | Mouse IgG1 kappa |
| **Immunogen Information :** | Human brain tissue factor (CD142) |

## Description

CD142, also known as coagulation factor III, tissue thromboplastin, and tissue factor. It is a transmembrane glycoprotein, which enables cells to initiate the blood coagulation cascades, and functions as the high-affinity receptor for the coagulation factor VII. The resulting complex provides a catalytic event that is responsible for initiation of the coagulation protease cascades by specific limited proteolysis. Unlike the other cofactors of these protease cascades, which circulate as nonfunctional precursors, this factor is a potent initiator that is fully functional when expressed on cell surfaces. It is the only one factor in the coagulation pathway for which a congenital deficiency has not been described.
Specificity : The mouse monoclonal antibody HTF-1, also known as HTF1-7B8, recognizes an extracellular epitope of CD142 (tissue factor, coagulation factor III), a type I glycoprotein expressed on endothelial cells, monocytes, macrophages, and platelets upon induction by inflammatory mediators, and expressed constitutively by some tumors, the vasculature, placenta, kidney, and central nervous system.

## Product Info

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| **Amount :** | 100 tests |
| **Purification :** | The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography. |
| **Content :** | Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide |
| **Storage condition :** | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. |

## Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 ÃÂµl reagent / 100 ÃÂµl of whole blood or $10^6$ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***

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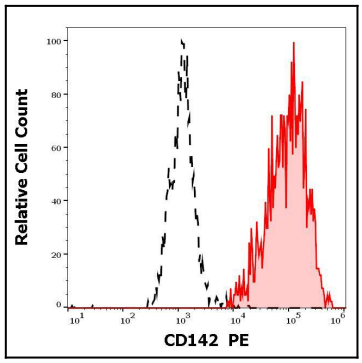



Figure 1 : Separation of A-431 cells stained using anti-CD142 (HTF-1) PE antibody (concentration in sample 5 µg/ml, red-filled) from A-431 unstained cells (black-dashed) in flow cytometry analysis (intracellular staining).

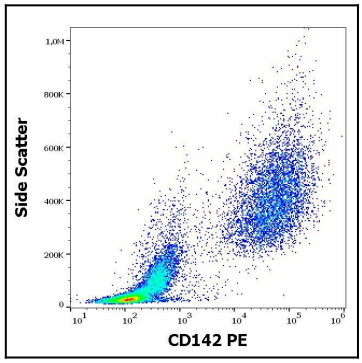



Figure 2 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD142 (HTF-1) PE antibody (10 µl reagent / 100 µl of peripheral whole blood).

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