

30-2906: Anti-Hu CD142 APC Mab (HTF-1)

Clonality :	Monoclonal
Clone Name :	HTF-1
Application :	FACS
Reactivity :	Human
Conjugate :	APC
Gene :	F3
Gene ID :	2152
Uniprot ID :	P13726
Alternative Name :	F3, tissue factor, tissue thromboplastin, coagulation factor III, TF, TFA
Isotype :	Mouse IgG1 kappa
Immunogen Information :	Human brain tissue factor (CD142)

Description

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.

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.

Product Info

Amount :	100 Tests
Purification :	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Storage Buffer: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

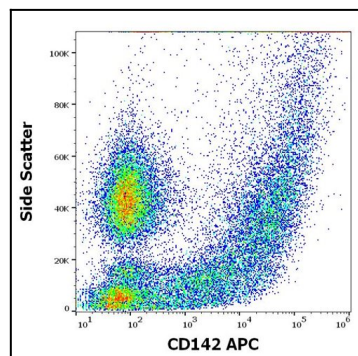


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood spiked with A431 cells stained using anti-human CD142 (HTF-1) APC antibody ($10^{-1/4}$ l reagent / 100 μ l of sample - peripheral whole blood spiked with A431 cells).

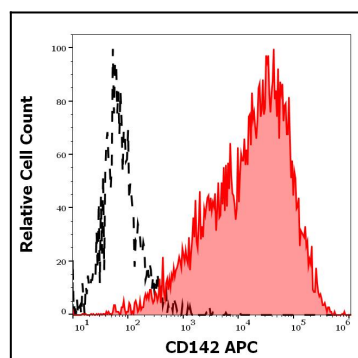


Figure 2: Separation of A431 cells (red-filled) from human lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood spiked with A431 cells stained using anti-human CD142 (HTF-1) APC antibody ($10^{-1/4}$ l reagent / 100 μ l of sample - peripheral whole blood spiked with A431 cells).