

30-2566: Anti-Human CD41/CD61 (PAC-1 epitope) PE (Clone : PAC-1)

Clonality :	Monoclonal
Clone Name :	PAC-1
Application :	FACS
Reactivity :	Human
Conjugate :	PE
Gene :	ITGA2B/ITGB3
Gene ID :	3674/3690
Alternative Name :	platelet GPIIb, Integrin alpha-IIIb, GPalpha IIb, GPIIb, GT, GP3A, platelet GPIIIa
Isotype :	Mouse IgM kappa
Immunogen Information :	Human platelets

Description

CD41 (platelet glycoprotein IIb, integrin alpha IIb) is composed of two subunits (120 kDa transmembrane alpha chain and 23 kDa extracellular beta chain) and interacts with CD61 (platelet glycoprotein IIIa, integrin beta 3) in the presence of calcium to form a functional adhesive protein receptor. CD41/CD61 complex is one of the earliest markers of the megakaryocytic lineage. Upon blood vessel damage, this receptor binds to a variety of proteins including von Willebrand factor, fibrinogen, fibronectin and vitronectin, and it is involved in platelet aggregation.

Specificity : The mouse monoclonal antibody PAC-1 recognizes an extracellular activation-induced conformational epitope PAC-1 on CD41/CD61 complex (gPIIb/IIIa), also known as integrin alpha IIb beta 3, a receptor which mediates platelet aggregation.

Product Info

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 μl reagent / 100 μl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

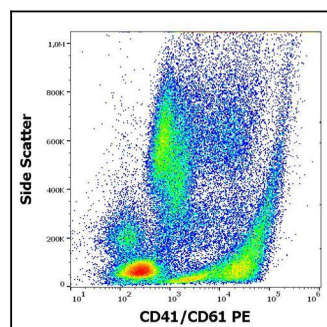


Figure 1 : Flow cytometry surface staining pattern of PHA stimulated human peripheral whole blood stained using anti-human CD41/CD61 (PAC-1) PE antibody (10 μl reagent / 100 μl of peripheral whole blood).

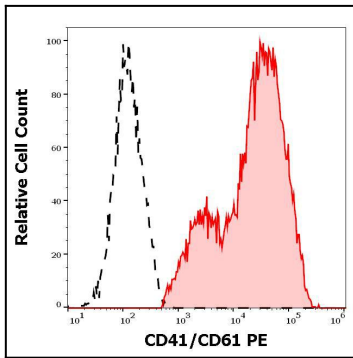


Figure 2 : Separation of CD41/CD61 positive thrombocytes (red-filled) from CD41/CD61 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of PHA stimulated human peripheral whole blood using anti-human CD41/CD61 (PAC-1) PE antibody (10 μ l reagent / 100 μ l of peripheral whole blood).