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Datasheet for ABIN7013957
anti-CD41, CD61 antibody (PE)

2 Images

Overview

Quantity:	100 tests
Target:	CD41, CD61
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD41, CD61 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Human platelets
Clone:	PAC-1
Isotype:	IgM kappa
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.
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD41, CD61
Alternative Name:	CD41/CD61 (CD41, CD61 Products)

Target Details

Background: 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.,platelet GPIIb, Integrin alpha-1Ib, GPalpha IIb, GPIIb, GT, GP3A, platelet GPIIIa

Application Details

Application Notes: 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.

Restrictions: For Research Use only

Handling

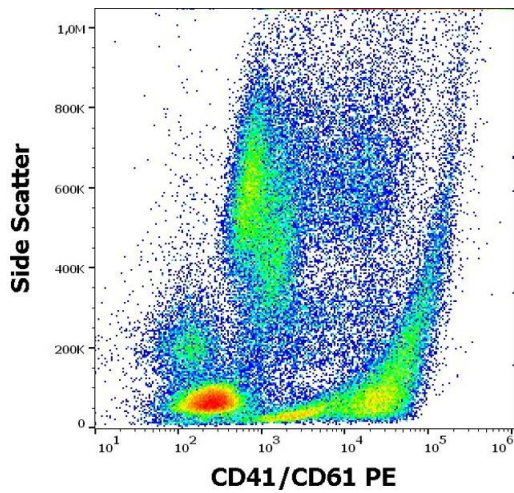
Buffer: Stabilizing Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

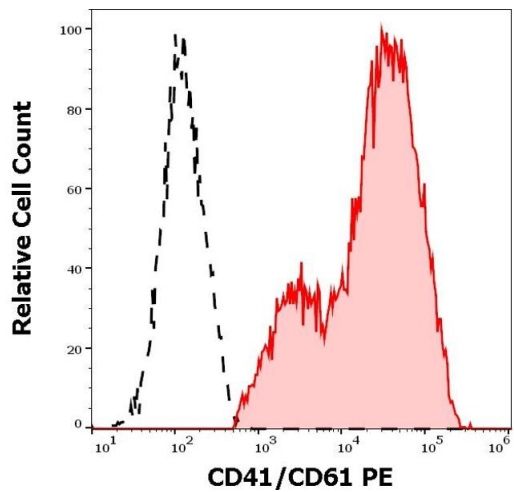
Storage: 4 °C

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.



Flow Cytometry

Image 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).



Flow Cytometry

Image 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 µL reagent / 100 µL of peripheral whole blood).