abcam

ab328514

PE Anti-CD41/CD61 antibody [PAC-1]

Key facts

Isotype	IgM
Host species	Mouse
Conjugation	PE
Excitation/Emission	Ex: 480;565nm, Em: 578nm
Storage buffer	pH: 8 Preservative: 0.1% Sodium azide Constituents: 99.69% Tris buffered saline, 0.2% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Native Cell Human platelets within Human ITGA2B. Database link P08514
Clone number	PAC-1
Purification technique	Size-exclusion chromatography
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.
Light chain type	kappa

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	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.

Target data

See full target information ITGA2B

Function	Integrin alpha-IIb/beta-3 (ITGA2B:ITGB3) is a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. It recognizes the sequence R-G-D in a wide array of ligands. It recognizes the sequence H-H-L-G-G-G-A-K-Q-A-G-D-V in fibrinogen gamma chain (By similarity). Following activation integrin alpha-IIb/beta-3 brings about platelet/platelet interaction through binding of soluble fibrinogen (PubMed:9111081). This step leads to rapid platelet aggregation which physically plugs ruptured endothelial cell surface (By similarity). Integrin ITGA2B:ITGB3 is also the receptor of erythrocyte-specific ICAM4 ligand involved in heterotypic cell-cell adhesion between erythrocytes and activated platelets (PubMed:12477717).

Storage

Shipped at conditions	Ambient - Can Ship with Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

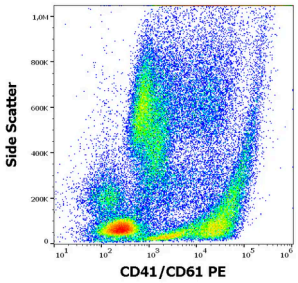
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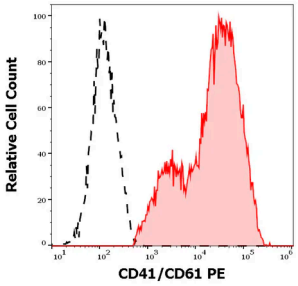
2 product images



Flow Cytometry - PE Anti-CD41/CD61 antibody [PAC-1] (ab328514)

CD41/CD61 Flow Cytometry staining of PHA stimulated human peripheral whole blood using mouse Anti-CD41/CD61 antibody

Flow cytometry surface staining pattern of PHA stimulated human peripheral whole blood stained using ab328514 (10 µl reagent / 100 µl of peripheral whole blood).



Flow Cytometry - PE Anti-CD41/CD61 antibody [PAC-1] (ab328514)

CD41/CD61 Flow Cytometry staining of PHA stimulated human peripheral whole blood using mouse Anti-CD41/CD61 antibody

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 ab328514 (10 µl reagent / 100 µl of peripheral whole blood).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.