

PE Anti-Mouse CD41 (MWReg30) Rat Recombinant Antibody

Catalog Number: PE-65674

Basic Information

Catalog Number:

PE-65674

Concentration:

100ug, 200 ug/ml

Source:

Rat

Isotype:

IgG2a

GenBank Accession Number:

BC120493

GeneID (NCBI):

16399

UNIPROT ID:

Q9QUM0

Full Name:

integrin alpha 2b

Purification Method:

Protein G purification

CloneNo.:

MWReg30

Recommended Dilutions:FC: 0.1 ug per 10⁶ cells in a 100 µl suspension**Excitation/Emission maxima wavelengths:**

496 nm, 565 nm / 578 nm

Applications

Tested Applications:

FC

Species Specificity:

mouse

Positive Controls:

FC : mouse peripheral blood platelets,

Background Information

The integrins are a superfamily of cell adhesion receptors that bind to extracellular matrix ligands, cell-surface ligands, and soluble ligands (PMID: 17543136). They are transmembrane $\alpha\beta$ heterodimers and at least 24 distinct integrin heterodimers are formed by the combination of 18 α and eight β known subunits (PMID: 17543136; 20029421). In addition to mediating cell adhesion, integrins also play important roles in modulating signal transduction pathways that control cellular responses including migration, proliferation, differentiation, and apoptosis (PMID: 19118207). Integrin α -IIb (ITGA2B, CD41) is expressed on platelets, megakaryocytes and some hematopoietic progenitor cells (PMID: 11934866). This protein undergoes post-translational cleavage to yield disulfide linked light beta (25 kDa) and heavy alpha (125 kDa) chains, which join with integrin beta3 (CD61) to form a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. CD41/CD61 is crucial for platelet aggregation through binding of soluble fibrinogen.

Storage

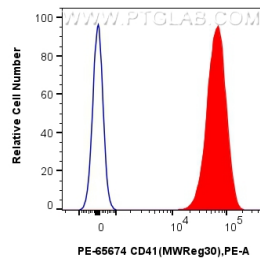
Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

Selected Validation Data



1×10^6 mouse peripheral blood platelets were surface stained with 0.1 μ g PE Anti-Mouse CD41 (MWReg30) Rat RecAb (PE-65674, Clone: MWReg30) (red) or PE Rat IgG2a Isotype Control (2A3) (PE-65209, Clone: 2A3) (blue). Cells were not fixed.