

For Research Use Only

FcZero-rAb™ PE Anti-Mouse PDGFR beta/CD140b Rabbit Recombinant Antibody

Catalog Number: PE-FcA98207



Basic Information

Catalog Number: PE-FcA98207	GenBank Accession Number: NM_008809.2	Purification Method: Protein A purification
Concentration: 100ug, 200 µg/ml	GeneID (NCBI): 18596	CloneNo.: 241754F6
Source: Rabbit	Full Name: platelet derived growth factor receptor, beta polypeptide	Recommended Dilutions: FC: 0.1 ug per 10 ⁶ cells in 100 µl suspension
Isotype: IgG	Calculated MW: 123kDa	Excitation/Emission maxima wavelengths: 496 nm, 565 nm / 578 nm
Immunogen Catalog Number: EG1533		

Applications

Tested Applications: FC	Positive Controls: FC : NIH/3T3 cells,
Species Specificity: mouse	

Background Information

The Platelet-Derived Growth Factor Receptor Beta (PDGFR beta, also known as CD140b) is a receptor tyrosine kinase that plays a crucial role in various cellular processes, including cell proliferation, migration, and survival. In mice, PDGFR beta is particularly significant due to its expression in pericytes, which are cells that reside on the walls of capillaries and play a vital role in maintaining vascular stability and integrity (PMID: 20738866). In the central nervous system (CNS) of mice, PDGFR beta is predominantly expressed in pericytes and vascular smooth muscle cells. It is involved in the formation and maintenance of the blood-brain barrier, as well as in the regulation of angiogenesis and vascular stability. Research in mouse models has shown that PDGFR beta signaling is crucial for tissue repair and functional recovery after stroke. Mice with disrupted PDGFR beta signaling exhibit delayed recovery and increased infarction volume following cerebral ischemia (PMID: 21952111).

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

For technical support and original validation data for this product please contact:

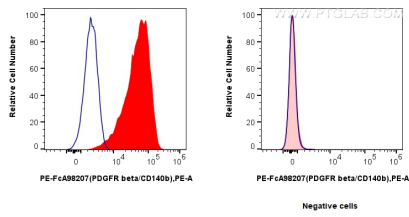
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Selected Validation Data



1x10⁶ NIH/3T3 cells (left) or mouse splenocytes (right) were surface stained with 0.25 ug PE Anti-Mouse PDGFR beta/CD140b Rabbit RecAb (PE-FcA98207, Clone: 241754F6)(red) or 0.25 ug PE Rabbit IgG Isotype Control RecAb (PE-FcA98136, Clone: 240953C9) (blue). Cells were not fixed.