For Research Use Only

FcZero-rAb® CoraLite® Plus 488 Anti-Mouse PDGFR beta/CD140b Rabbit Recombinant Antibody

Catalog Number:CL488-FcA98207

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Basic Information

Catalog Number:
CL488-FcA98207

Size:
100ug , 500 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG1533

GenBank Accession Number:
NM_008809.2

GeneID (NCBI):
18596

UNIPROT ID:
P05622-1

Full Name:
platelet derived growth factor receptor, beta polypeptide

Calculated MW:
123kDa

Purification Method:
Protein A purification

CloneNo.:
241754F6

Recommended Dilutions:
FC: 0.25 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
FC

Species Specificity:
mouse

Positive Controls:

FC : NIH/3T3 cells,

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).

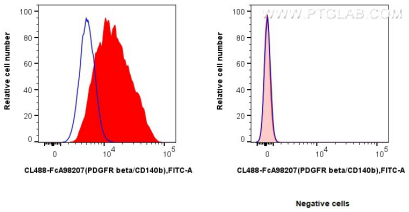
Storage

Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide, pH7.3

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



1x10^6 NIH/3T3 cells (left) or mouse splenocytes (right) were surface stained with 0.25 ug CoraLite® Plus 488 Anti-Mouse PDGFR beta/CD140b Rabbit RecAb (CL488-FcA98207, Clone: 241754F6) (red) or 0.25 ug FcZero-rAb® CoraLite® Plus 488 Rabbit IgG Isotype Control Recombinant Antibody (CL488-FcA98136, Clone: 240953C9)(blue). Cells were not fixed.