

For Research Use Only

CoraLite®594 Anti-Mouse PDGFR beta/CD140b Rabbit Recombinant Antibody

Catalog Number: CL594-98207



Basic Information

Catalog Number:

CL594-98207

Size:

100ug , 500 ug/ml

Source:

Rabbit

Isotype:

IgG

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

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

FC

Species Specificity:

mouse

Background Information

The Platelet-Derived Growth Factor Receptor Beta (PDGFR β) is a receptor tyrosine kinase that plays a crucial role in various cellular processes, including cell proliferation, migration, and survival. In mice, PDGFR β 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 β 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 β signaling is crucial for tissue repair and functional recovery after stroke. Mice with disrupted PDGFR β signaling exhibit delayed recovery and increased infarction volume following cerebral ischemia (PMID: 21952111). The observed MW is about 180 kDa, which may be caused by post-translational modification.

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:

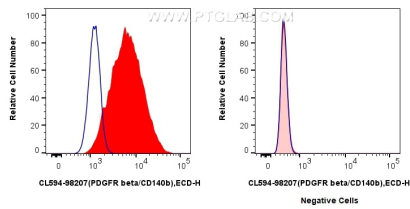
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E: proteintech@ptglab.com

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10⁶ NIH/3T3 cells (left) or mouse splenocytes (right) were surface stained with 0.25 ug CoraLite®594 Anti-Mouse PDGFR beta/CD140b Rabbit RecAb (CL594-98207, Clone: 241754F6) (red) or 0.25 ug CoraLite®594 Rabbit IgG Isotype Control RecAb (CL594-98136, Clone: 240953C9) (blue). Cells were not fixed.