

For Research Use Only

# Anti-Mouse PDGFR beta/CD140b Rabbit Recombinant Antibody

Catalog Number: 98207-1-RR



## Basic Information

<b>Catalog Number:</b> 98207-1-RR	<b>GenBank Accession Number:</b> NM_008809.2	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 100ug, 1000 ug/ml	<b>GeneID (NCBI):</b> 18596	<b>CloneNo.:</b> 241754F6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P05622-1	
<b>Isotype:</b> IgG	<b>Full Name:</b> platelet derived growth factor receptor, beta polypeptide	
<b>Immunogen Catalog Number:</b> EG1533	<b>Calculated MW:</b> 123kDa	

## Applications

**Tested Applications:**  
FC

**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. 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:

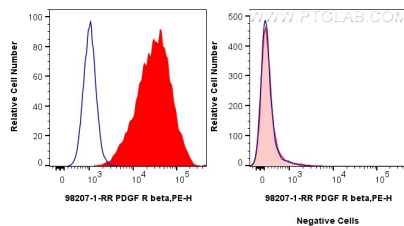
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

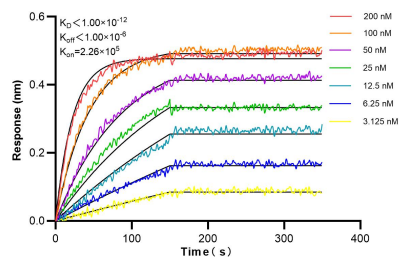
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## Selected Validation Data



1x10<sup>6</sup> NIH/3T3 cells (left) or mouse splenocytes (right) were surface stained with 0.25 ug Anti-Mouse PDGFR beta/CD140b Rabbit Recombinant Antibody (98207-1-RR, Clone: 241754F6) (red) or Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed.



Biolayer interferometry (BLI) kinetic assays of 98207-1-RR against Mouse PDGFR beta/CD140b were performed. The affinity constant is below 1 pM.