

## PDGF Receptor beta Rabbit mAb

Catalog No: #48722

Package Size: #48722-1 50ul #48722-2 100ul

Orders: order@signalwayantibody.com

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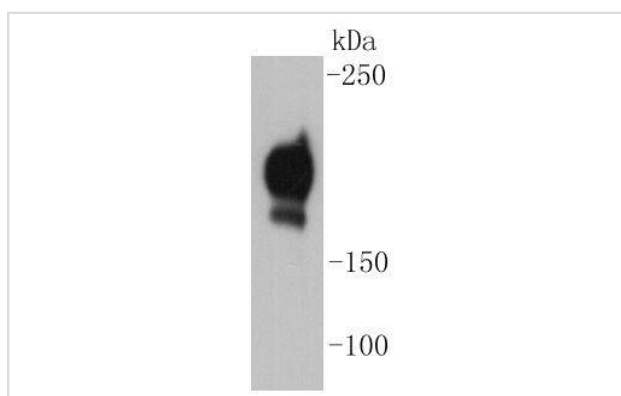
## Description

Product Name	PDGF Receptor beta Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SY10-08
Purification	ProA affinity purified
Applications	WB, IHC, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	Beta platelet derived growth factor receptor antibody Beta-type platelet-derived growth factor receptor antibody CD 140B antibody CD140 antigen-like family member B antibody CD140b antibody CD140b antigen antibody IBGC4 antibody IMF1 antibody JTK12 antibody OTTHUMP00000160528 antibody PDGF R beta antibody PDGF-R-beta antibody PDGFR 1 antibody PDGFR antibody PDGFR beta antibody PDGFR1 antibody PDGFRB antibody PGFRB_HUMAN antibody Platelet derived growth factor receptor 1 antibody Platelet derived growth factor receptor beta antibody Platelet derived growth factor receptor beta polypeptide antibody
Accession No.	Swiss-Prot#:P09619
Uniprot	P09619
GeneID	5159;
Calculated MW	170 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

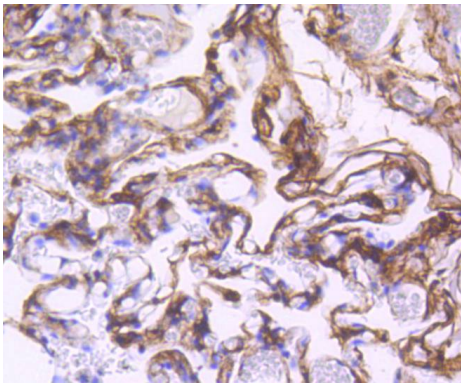
## Application Details

WB: 1:1,000-5,000 IHC: 1:50-1:200

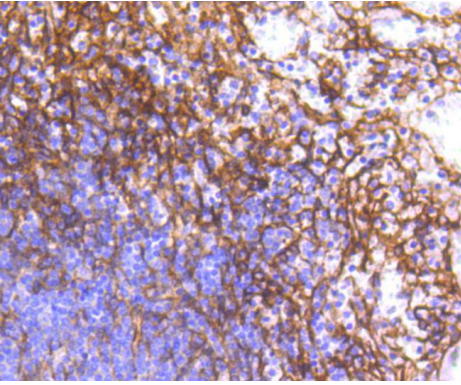
## Images



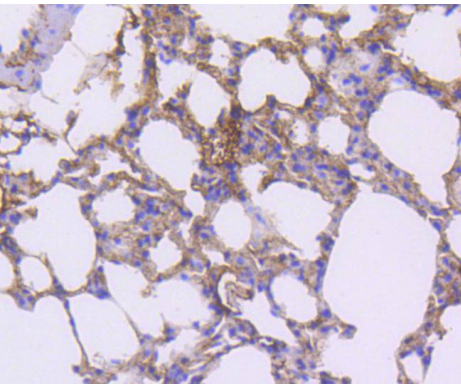
Western blot analysis of PDGF Receptor beta on NIH/3T3 cell lysates using anti-PDGF Receptor beta antibody at 1/1,000 dilution.



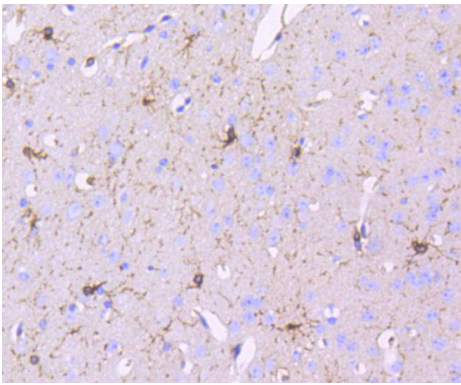
Immunohistochemical analysis of paraffin-embedded human lung tissue using anti-PDGF Receptor beta antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-PDGF Receptor beta antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue using anti-PDGF Receptor beta antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-PDGF Receptor beta antibody. Counter stained with hematoxylin.

## Background

Platelet-derived growth factor (PDGF) is a mitogen for mesenchyme- and glia-derived cells. PDGF consists of two chains, A and B, which dimerize to form functionally distinct isoforms, PDGF-AA, PDGF-AB and PDGF-BB. These three isoforms bind with different affinities to two receptor types, PDGFR- $\alpha$  and  $\beta$ , which are endowed with protein tyrosine kinase domains. PDGFR- $\alpha$  can bind to both A and B subunits of PDGF, while PDGFR- $\beta$  can only bind the B subunit. Ligand binding promotes either homo- or heterodimerization of the PDGF receptors in a specific manner. PDGF-AA induces the dimerization of two  $\alpha$  receptors, PDGF-AB induces dimerization of  $\alpha\alpha$  and  $\alpha\beta$  and PDGF-BB induces the formation of three types of dimers,  $\alpha\alpha$ ,  $\alpha\beta$  and  $\beta\beta$ . Translocation of the PDGFR- gene with the Tel gene is linked to chronic myelomonocytic leukemia (CMML), a myelodysplastic syndrome, and demonstrates the oncogenic potential of the PDGF receptors.

## References

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Note: This product is for in vitro research use only