

## PDGFR alpha Rabbit mAb

Catalog No: #49363

Package Size: #49363-1 50ul #49363-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

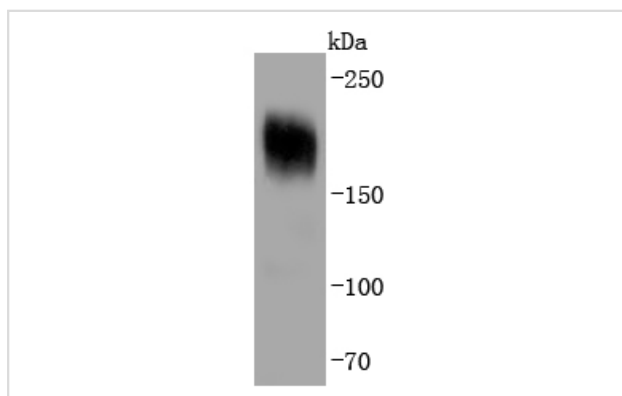
## Description

Product Name	PDGFR alpha Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JF104-6
Purification	ProA affinity purified
Applications	WB, ICC, IHC, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	Alpha-type platelet-derived growth factor receptor antibody CD140 antigen-like family member A antibody CD140a antibody CD140a antigen antibody MGC74795 antibody PDGF alpha chain antibody PDGF-R-alpha antibody PDGFR 2 antibody PDGFR alpha antibody PDGFR2 antibody PDGFRA antibody PDGFRA/BCR fusion antibody PGFRA_HUMAN antibody Platelet derived growth factor receptor 2 antibody Platelet derived growth factor receptor alpha antibody Platelet derived growth factor receptor alpha polypeptide antibody Platelet derived growth factor receptor antibody Rearranged in hypereosinophilia platelet derived growth factor receptor alpha fusion protein antibody RHEPDGFRA antibody
Accession No.	Swiss-Prot#:P16234
Uniprot	P16234
GeneID	5156;
Calculated MW	123 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

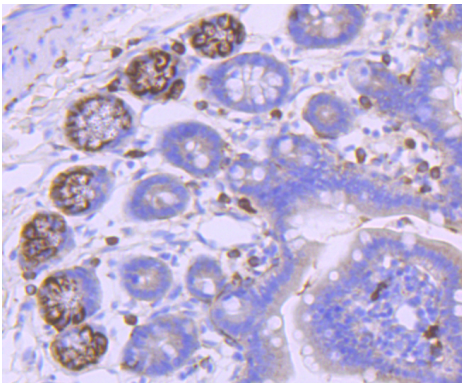
## Application Details

WB: 1:1,000-5,000 IHC: 1:50-1:200 ICC: 1:50-1:200 FC: 1:50-1:100

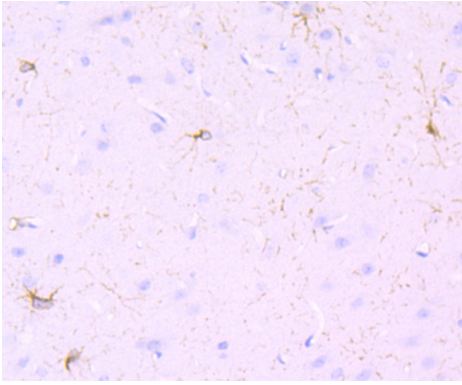
## Images



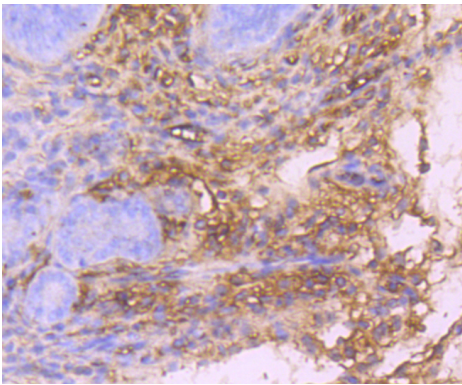
Western blot analysis of PDGFR alpha on NIH/3T3 cells lysates using anti-PDGFR alpha antibody at 1/1,000 dilution.



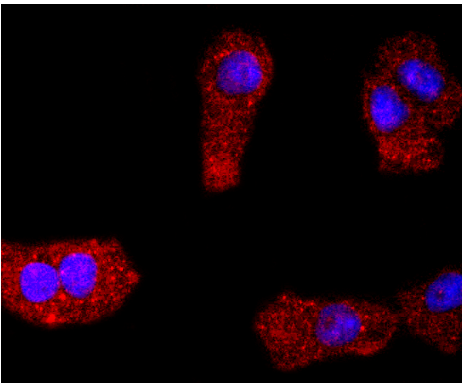
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-PDGFR alpha antibody. Counter stained with hematoxylin.



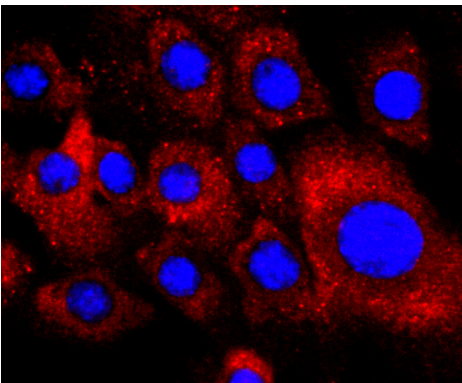
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-PDGFR alpha antibody. Counter stained with hematoxylin.



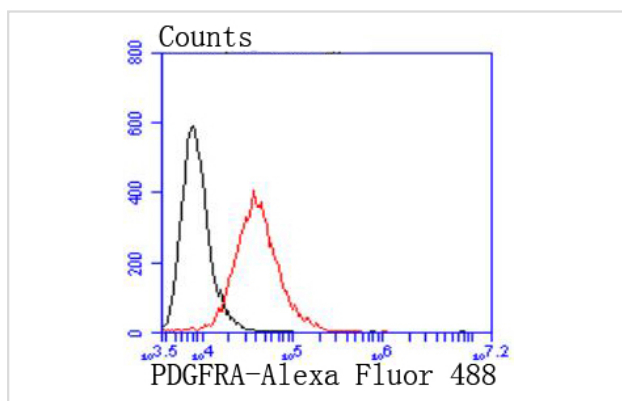
Immunohistochemical analysis of paraffin-embedded mouse uterus tissue using anti-PDGFR alpha antibody. Counter stained with hematoxylin.



ICC staining PDGFR alpha in A549 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining PDGFR alpha in NIH/3T3 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with PDGFR alpha antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

## 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- $\beta$  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

Note: This product is for in vitro research use only