

## Basic Information

Product Name	Anti-PDGFR alpha/PDGFR Antibody	
Gene Name	PDGFR	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC	
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PDGFR identical to the related mouse sequence, and different from the related rat sequence by one amino acid.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	180 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

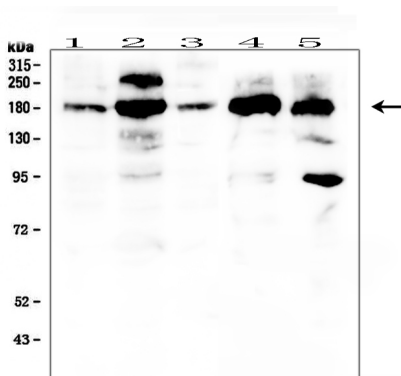
## Background Information

PDGFR (Platelet-derived growth factor receptor, alpha), also called PDGFR2, encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. The PDGFR gene is mapped on 4q12. The PDGFR-FIP1L1 gene is a constitutively activated tyrosine kinase that transforms hematopoietic cells and is a therapeutic target of imatinib. And the PDGFR gene contains 23 exons spanning about 65 kb. Using the human PDGFR promoter linked to a luciferase reporter, Joosten et al. showed that PAX1 acts as a transcriptional activator of the PDGFR gene in differentiated human embryonal carcinoma cells. PDGFR is responsible for mediating cellular contraction of multiple growth factors: TGFβ1 and members of the PDGF family. Lei et al. noted that in the rabbit model of the disease, PDGFR is dramatically more capable of promoting PVR than is the closely related PDGFRB. PDGFR is a critical receptor required for human CMV infection, and thus a target for novel antiviral therapies.

## Reference

Anti-PDGFR alpha/PDGFR Antibody被引用在2文献中。

## Selected Validation Data



Western blot analysis of PDGFR alpha/PDGFR using anti-PDGFR alpha/PDGFR antibody (PB0822). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HT1080 whole cell lysates,

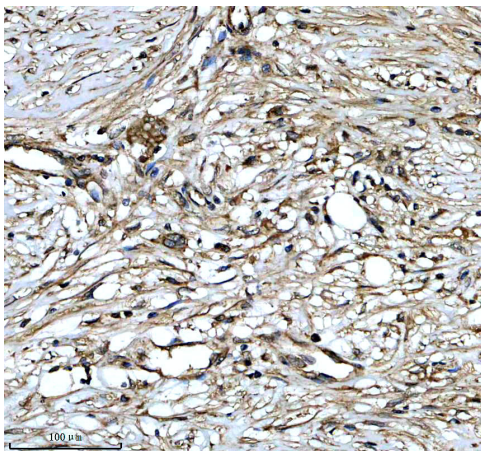
Lane 2: human Caco-2 whole cell lysates,

Lane 3: human U2OS whole cell lysates,

Lane 4: human PC-3 whole cell lysates,

Lane 5: human 293T whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PDGFR alpha/PDGFR antigen affinity purified polyclonal antibody (PB0822) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PDGFR alpha/PDGFR at approximately 180 kDa. The expected band size for PDGFR alpha/PDGFR is at 123 kDa.



IHC analysis of PDGFR alpha/PDGFR using anti-PDGFR alpha/PDGFR antibody (PB0822).

PDGFR alpha/PDGFR was detected in a paraffin-embedded section of human colon cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-PDGFR alpha/PDGFR Antibody (PB0822) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.