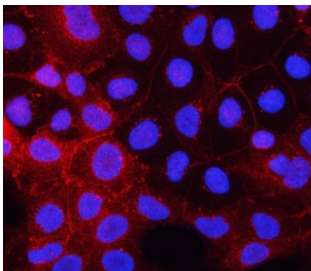


## PDGFR alpha Antibody / PDGFRA / PDGFR2 (RQ7956)

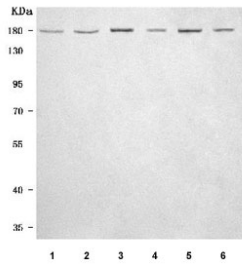
Catalog No.	Formulation	Size
RQ7956	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

### Bulk quote request

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	P16234
<b>Localization</b>	Cytoplasm, cell membrane
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunofluorescence (FFPE) : 5ug/ml Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This PDGFR alpha antibody is available for research use only.



Immunofluorescent staining of FFPE human Caco-2 cells with PDGFR alpha antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human 293T, 2) human U-251, 3) rat brain, 4) rat C6, 5) mouse brain and 6) mouse NIH 3T3 cell lysate with PDGFR alpha antibody. Expected molecular weight: 120-195 kDa depending on glycosylation level.

## Description

PDGFRA (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 PDGFA gene is mapped on 4q12. The PDGFRA-FIP1L1 gene is a constitutively activated tyrosine kinase that transforms hematopoietic cells and is a therapeutic target of imatinib. The PDGFRA gene contains 23 exons spanning about 65 kb. Using the human PDGFRA promoter linked to a luciferase reporter, Joosten et al. showed that PAX1 acts as a transcriptional activator of the PDGFRA gene in differentiated human embryonal carcinoma cells. PDGFRA is responsible for mediating cellular contraction of multiple growth factors: TGFB1 and members of the PDGF family. Lei et al. noted that in the rabbit model of the disease, PDGFRA is dramatically more capable of promoting PVR than is the closely related PDGFRB. PDGFRA is a critical receptor required for human CMV infection, and thus a target for novel antiviral therapies.

## Application Notes

Optimal dilution of the PDGFR alpha antibody should be determined by the researcher.

## Immunogen

E. coli-derived recombinant human protein (amino acids Q24-E906) was used as the immunogen for the PDGFR alpha antibody.

## Storage

After reconstitution, the PDGFR alpha antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.