

## Anti-PDGF Receptor alpha/PDGFR $\alpha$ Antibody Picoband® Fluoro647 Conjugated

Catalog Number: PB9771-Fluoro647

### About PDGFRA

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. And 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: TGF $\beta$ 1 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.

### Overview

Product Name	Anti-PDGF Receptor alpha/PDGFR $\alpha$ Antibody Picoband® Fluoro647 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P16234

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PDGFRA, identical to the related mouse sequence, and different from the related rat sequence by one amino acid.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.

Conjugate	Fluoro647 Excitation Wavelength: 650 nm Emission Wavelength: 665 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

### 3 Publications Citing This Product

1. PubMed ID: 10.1016/j.celrep.2018.10.063, Janus Kinase 1 Plays a Critical Role in Mammary Cancer Progression
2. PubMed ID: 27446356, Label-retaining assay enriches tumor-initiating cells in glioblastoma spheres cultivated in serum-free medium
3. PubMed ID: 29140299, PDGFR $\alpha$  regulated by miR-34a and FoxO1 promotes adipogenesis in porcine intramuscular preadipocytes through Erk signaling pathway

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