

Human PDGF Rα Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # PRa292 Catalog Number: FAB1264R

100 µg

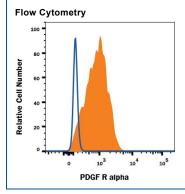
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human PDGF Rα. Recognizes the PDGF receptor α-subunit; it does not recognize the PDGF receptor β-subunit. Binds to the PDGF receptor α-subunit of primate species (human, monkey, baboon) and dog. Does not recognize rat or mouse receptors and its ability to bind to receptors from other species has not been tested.		
Source	Monoclonal Mouse IgG ₁ Clone # PRa292		
Purification	Protein A or G purified from ascites		
Immunogen	Human osteosarcoma cell membrane extracts		
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm		
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.		

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

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	Recommended Concentration	Sample	
Flow Cytometry	0.25-1 µg/10 ⁶ cells	See Below	

DATA



Detection of PDGF R alpha in U-118-MG Human Cell Line by Flow Cytometry. U-118-MG human glioblastoma/astrocytoma cell line was stained with Mouse Anti-Human PDGF R alpha Alexa Fluor® 647-conjugated Monoclonal Antibody (Catalog # FAB1264R, filled histogram) or isotype control antibody(Catalog # IC002R, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

Protect from light. Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

PDGF is a major serum mitogen that can exist as a homo- or heterodimeric protein consisting of disulfide-linked PDGF-A and PDGF-B chains. The PDGF-AA, PDGF-BB and PDGF-AB isoforms have been shown to bind to two distinct cell surface PDGF receptors with different affinities. Whereas PDGF α binds all three PDGF isoforms with high affinity, PDGF α binds PDGF-BB and AB, but not PDGF-AA. Both PDGF α and PDGF α are members of the class III subfamily of receptor tyrosine kinases (RTK) that also includes the receptors for M-CSF, SCF and Flt3 ligand. All class III RTKs are characterized by the presence of five immunoglobulin-like domains in their extracellular region and a split kinase domain in their intracellular region. PDGF binding induces receptor homo-and heterodimerization and signal transduction. The expression of the α and β receptors is independently regulated in various cell types. Only PDGF α is expressed in oligodendrocyte progenitor cells, mesothelial cell and liver endothelial cells. Soluble PDGF- α has been detected in cell conditioned medium and human plasma. Recombinant soluble PDGF α binds PDGF with high affinity and is a potent PDGF antagonist (1).

References

1. Heldin, C.H. and L. Claesson-Welsh (1994) Guidebook to Cytokines and Their Receptors, Nicola, N.A. (ed) Oxford University Press, New York, NY p. 202.

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