Mouse PDGF Rα
Alexa Fluor® 488-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 189208

Catalog Number: FAB9215G

25 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse PDGF Rα in direct ELISAs.
Source	Monoclonal Rat IgG_{2A} Clone # 189208
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse PDGF Rα Leu25-Glu524 (Asp65Glu, Gly439Ala, Thr440Ala), predicted Accession # P26618
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

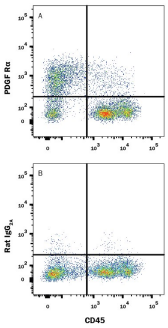
APPLICATIONS

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.*

	Recommended Concentration	Sample
Flow Cytometry	0.5 µg/10^6 cells	See Below

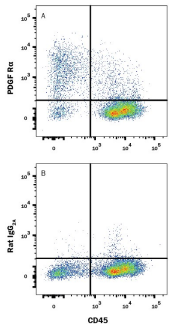
DATA

Flow Cytometry



Detection of PDGF Rα in Mouse Bone Marrow by Flow Cytometry. Mouse bone marrow was stained with Rat Anti-Mouse CD45 APC-conjugated Monoclonal Antibody (Catalog # FAB114A) and either (A) Rat Anti-Mouse PDGF Rα Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB9215G) or (B) Rat IgG_{2A} Alexa Fluor 488 Isotype Control (Catalog # IC006G). View our protocol for Staining Membrane-associated Proteins.

Flow Cytometry



Detection of PDGF Rα in Mouse Compact Bone Tissue by Flow Cytometry. Mouse compact bone tissue was stained with Rat Anti-Mouse CD45 APC-conjugated Monoclonal Antibody (Catalog # FAB114A) and either (A) Rat Anti-Mouse PDGF Rα Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB9215G) or (B) Rat IgG_{2A} Alexa Fluor 488 Isotype Control (Catalog # IC006G). 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 Rα (Platelet-Derived Growth Factor Receptor alpha), also known as CD140a, is a 165-170 kDa member of the PDGFR (or class III) subfamily, Tyrosine Kinase family, Protein Kinase superfamily of molecules. Mature mouse PDGF Rα is a 1065 amino acid (aa) type I transmembrane glycoprotein that contains five Ig-like domains within a 504 aa extracellular domain. It is expressed on a wide variety of cell types, both fetal and adult. In the fetus, PDGF Rα is found on NG2+ oligodendroglial precursors, mesenchyme of both the sclerotome and dermatome (but not myotome), mesenchyme of the lung, hepatoblasts, Leydig cells, and neural crest cells that target the branchial arches. In the adult, PDGF Rα has been found constitutively or inducibly on hepatocytes, vascular and visceral smooth muscle, Leydig cells, retinal astrocytes, fibroblasts, monocytes, hepatic stellate cells, CD44+ adipocyte precursors, endothelial cells, osteoblasts, and Ptch+ Gli+ pericryptal colonic subepithelial fibroblasts. On the cell surface, PDGF Rα is a monomer. Upon binding to a dimeric ligand, PDGF Rα either homodimerizes, or heterodimerizes with PDGF Rβ. The PDGF Rα homodimer binds PDGF-AA, -AB, -BB, and -CC, while the αβ-heterodimer binds PDGF-AB, -BB, and -CC. Over aa 25-524, mouse PDGF Rα shares 93% and 85% aa sequence identity with rat and human PDGF Rα, respectively. Over the same aa sequence, mouse PDGF Rα shares only 33% aa sequence identity with mouse PDGF Rβ.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449

Mouse PDGF Rα
Alexa Fluor® 488-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 189208

Catalog Number: FAB9215G

25 µg

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449