Human PDGF-C Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1560G
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PDGF-C in direct ELISAs and Western blots. In Western blots, approximately 15% cross-reactivity with recombinant mouse PDGF-C is observed, and less than 1% cross-reactivity with human PDGF, recombinant human (rh) PDGF-AA, rhPDGF-BB, rhP
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human PDGF-C Gly230-Gly345 Accession # Q9NRA1
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.*

Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

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

Platelet-derived growth factor C (PDGF-C), also named spinal cord derived growth factor (SCDGF) and follotain, is a member of the PDGF family that binds to the PDGF receptor αα and αβ. PDGF-C is a growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. It is a potent mitogen and chemoattractant for cells of mesenchymal origin. It is also required for normal skeleton formation during embryonic development, especially for normal development of the craniofacial skeleton and for normal development of the palate. In addition, PDGF-C is required for normal skin morphogenesis during embryonic development. PDGF-C plays an important role in angiogenesis and blood vessel development and is involved in fibrotic processes, in which transformation of interstitial fibroblasts into myofibroblasts plus collagen deposition occurs. The CUB domain has mitogenic activity in coronary artery smooth muscle cells, suggesting a role beyond the maintainance of the latency of the PDGF domain. In the nucleus, PDGFC seems to have additional function. Western blot analysis of platelets identified 55 kDa and 80 kDa PDGF C forms that were secreted on platelet activation (1).

PRODUCT SPECIFIC NOTICES

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