

PDGF-C (H-125): sc-33190

BACKGROUND

Platelet-derived growth factor (PDGF) refers to a family of disulphide-bonded dimeric isoforms that are important for growth and survival, and which function in several types of connective tissue cell. PDGF, which is a major mitogen for vascular smooth muscle cells and is implicated in the pathogenesis of arteriosclerosis, is composed of dimers of PDGF-A and PDGF-B poly-peptide chains encoded by different genes. PDGF-C (also designated spinal cord-derived growth factor, SCDGF or fallotein) is a functional analog of PDGF-A that requires proteolytic activation. PDGF-A and PDGF-C selectively activate PDGFR- α , whereas PDGF-B activates both PDGFR- α and PDGFR- β . PDGF-C expression in the arterial wall and cultured vascular cells suggests that it can transduce proliferation/migration signals to pericytes and smooth muscle cells. Additionally, PDGF-C is a target of EWS/ETS transcriptional deregulation and this transcriptional deregulation is specific to EWS/FLI.

CHROMOSOMAL LOCATION

Genetic locus: PDGFC (human) mapping to 4q32.1; Pdgfc (mouse) mapping to 3 E3.

SOURCE

PDGF-C (H-125) is a rabbit polyclonal antibody raised against amino acids 126-250 mapping within an internal region of PDGF-C of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

PDGF-C (H-125) is recommended for detection of precursor and mature PDGF-C of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PDGF-C (H-125) is also recommended for detection of precursor and mature PDGF-C in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PDGF-C siRNA (h): sc-39707, PDGF-C siRNA (m): sc-39708, PDGF-C shRNA Plasmid (h): sc-39707-SH, PDGF-C shRNA Plasmid (m): sc-39708-SH, PDGF-C shRNA (h) Lentiviral Particles: sc-39707-V and PDGF-C shRNA (m) Lentiviral Particles: sc-39708-V.

Molecular Weight of full length PDGF-C: 46 kDa.

Molecular Weight of PDGF-C interdomain: 30 kDa.

Positive Controls: MDA-MB-231 cell lysate: sc-2232, mouse colon extract: sc-364238 or Mouse Prostate Extract: sc-364249.

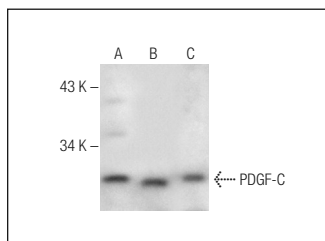
STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



PDGF-C (H-125): sc-33190. Western blot analysis of PDGF-C expression in MDA-MB-231 whole cell lysate (A) and mouse colon (B) and mouse prostate (C) tissue extracts.

SELECT PRODUCT CITATIONS

- Giulianelli, S., et al. 2010. MPA-induced gene expression and stromal and parenchymal gene expression profiles in luminal murine mammary carcinomas with different hormonal requirements. *Breast Cancer Res. Treat.* 129: 49-67.
- Chen, Y.T., et al. 2011. Platelet-derived growth factor receptor signaling activates pericyte-myofibroblast transition in obstructive and post-ischemic kidney fibrosis. *Kidney Int.* 80: 1170-1181.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **PDGF-C (KJ-13): sc-80290**, our highly recommended monoclonal alternative to PDGF-C (H-125).