



# SZABO SCANDIC

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Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PDGF-D (m): 293T Lysate: sc-122464

## 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. There are four members of the PDGF family: PDGF-A, PDGF-B, PDGF-C and PDGF-D (spinal cord-derived growth factor-B or iris-expressed growth factor). Their biological effects are mediated via two tyrosine kinase receptors, PDGFR- $\alpha$  and PDGFR- $\beta$ . PDGF-mediated signaling is critical for development of many organ systems. PDGF-D has a two-domain structure similar to PDGF-C and is secreted as a disulphide-linked homodimer, PDGF-DD. Upon limited proteolysis, PDGF-DD is activated and becomes a specific agonistic ligand for PDGFR- $\beta$ . PDGF-D is expressed in fibroblastic adventitial cells, cultured endothelial cells and in a variety of tumor cell lines.

## REFERENCES

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- Aase, K., Abramsson, A., Karlsson, L., Betsholtz, C. and Eriksson, U. 2002. Expression analysis of PDGF-C in adult and developing mouse tissues. *Mech. Dev.* 110: 187-191.

## CHROMOSOMAL LOCATION

Genetic locus: *Pdgfd* (mouse) mapping to 9 A1.

## PRODUCT

PDGF-D (m): 293T Lysate represents a lysate of mouse PDGF-D transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## APPLICATIONS

PDGF-D (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PDGF-D antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

PDGF-D (E-7): sc-137029 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse PDGF-D expression in PDGF-D transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



PDGF-D (E-7): sc-137029. Near-infrared western blot analysis of PDGF-D expression in non-transfected: sc-117752 (A) and truncated mouse PDGF-D transfected: sc-122464 (B) 293T whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG $\kappa$  BP-CFL 680: sc-516180.

PDGF-D (E-7): sc-137029. Western blot analysis of PDGF-D expression in non-transfected: sc-117752 (A) and truncated mouse PDGF-D transfected: sc-122464 (B) 293T whole cell lysates.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.