

## Product datasheet

# Recombinant Human PDGFC protein ab132727

1 Image

### Description

<b>Product name</b>	Recombinant Human PDGFC protein
<b>Expression system</b>	Wheat germ
<b>Accession</b>	<a href="#">Q9NRA1</a>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<pre> MSLFGLLLLSALAGQRQGTQAESNLSSKFQFSSNKEQN GVQDPQHERII TVSTNGSIHSPRFPHTYPRNTVLVWRLVAVEENVWQLTF DERFGLEDPE DDICKYDFVEVEEPSDGTILGRWCGSGTVPGKQISKGNQI RIRFVSDEYF PSEPGFCIHYNMMPQFTEAVSPSVLPPSALPLDLLNNAIT AFSTLEDLI RYLEPERWQLDLEDLYRPTWQLLGKAFVFGRKSRVVDLN LLTEEVRLYSC TPRNFSVSIREELKRTDTIFWPGCLLVKRCGGNCACCLHN CNECQCVP SK VTKKYHEVLQLRPKTGVRGLHKSLTDVALEHHEECDVCV RGSTGG </pre>
<b>Predicted molecular weight</b>	65 kDa including tags
<b>Amino acids</b>	1 to 345

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab132727** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	ELISA
	SDS-PAGE
	Western blot
<b>Form</b>	Liquid

## Additional notes

## Preparation and Storage

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### Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCl

## General Info

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### Function

Potent mitogen and chemoattractant for cells of mesenchymal origin. Binding of this growth factor to its affinity receptor elicits a variety of cellular responses. Appears to be involved in the three stages of wound healing: inflammation, proliferation and remodeling. Involved in fibrotic processes, in which transformation of interstitial fibroblasts into myofibroblasts plus collagen deposition occurs. Acts as a specific ligand for alpha platelet-derived growth factor receptor homodimer, and alpha and beta heterodimer. Binding to receptors induces their activation by tyrosine phosphorylation. The CUB domain has mitogenic activity in coronary artery smooth muscle cells, suggesting a role beyond the maintenance of the latency of the PDGF domain. In the nucleus, PDGFC seems to have additional function. Seems to be involved in palatogenesis.

### Tissue specificity

Expressed in the fallopian tube, vascular smooth muscle cells in kidney, breast and colon and in visceral smooth muscle of the gastrointestinal tract. Highly expressed in retinal pigment epithelia. Expressed in medulloblastoma. In the kidney, constitutively expressed in parietal epithelial cells of Bowman's capsule, tubular epithelial cells and in arterial endothelial cells (at protein level). Highly expressed in the platelets, prostate, testis and uterus. Higher expression is observed in uterine leiomyomata. Weaker expression in the spleen, thymus, heart, pancreas, liver, ovary cells and small intestine, and negligible expression in the colon and peripheral blood leukocytes.

### Sequence similarities

Belongs to the PDGF/VEGF growth factor family.

Contains 1 CUB domain.

### Developmental stage

In the fetal kidney, detected in the developing mesangium, ureteric bud epithelium and the undifferentiated mesenchyme (at protein level).

### Post-translational modifications

Proteolytic removal of the N-terminal CUB domain releasing the core domain is necessary for unmasking the receptor-binding epitopes of the core domain. Cleavage after basic residues in the hinge region (region connecting the CUB and growth factor domains) gives rise to the receptor-binding form. Cleaved by PLAT and PLG.

Sumoylated by SUMO1.

N-glycosylated.

### Cellular localization

Cytoplasm. Secreted. Nucleus. Cytoplasmic granule. Sumoylated form is predominant in the nucleus. Stored in alpha granules in platelets. Membrane associated when bound to receptors.

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## Images

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12.5% SDS-PAGE analysis of ab132727 stained with Coomassie Blue.

SDS-PAGE - Recombinant Human PDGFC protein  
(ab132727)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
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If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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