

Recombinant Human PDGFC protein ab132727

画像数 1

製品の詳細

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|-------------|--|
| 製品名 | Recombinant Human PDGFC protein |
| 発現系 | Wheat germ |
| アクセッション番号 | <u>Q9NRA1</u> |
| タンパク質長 | Full length protein |
| Animal free | No |
| 由来 | Recombinant |
| 生物種 | Human |
| 配列 | MSLFGLLLLSALAGQRQGTQAESNLSSKFQFSSNKEQNGVQ DPQHERII TVSTNGSIHSPRFPHTYPRNTVLVWRLVAVEENVWIQLTFDE RFGLEDPE DDICKYDFVEVEEPSDGTILGRWCGSGTVPKQISKGNQIRI RFVSDEYF PSEPGFCIHYNIIVMPQFTEAVSPSVLPPSALPLDLLNNAITA FSTLEDLI RYLEPERWQLDLEDLYRPTWQLLGKAFVFGKSRVVDLNLTT EEVRLYSC TPRNFVSISIREELKRTDTIFWPGCLLVKRCGGNCACCLHNCN ECQCVPSK VTKKYHEVLQLRPKTGVRGLHKSLTDVALEHHEECDVCVRGS TGG |
| 予測される分子量 | 65 kDa including tags |
| 領域 | 1 to 345 |

特性

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.

| | |
|----------|-----------------------------------|
| アプリケーション | ELISA SDS-PAGE Western blot |
| 製品の状態 | Liquid |

備考

前処理および保存

保存方法および安定性

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

関連情報

機能

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.

組織特異性

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.

配列類似性

Belongs to the PDGF/VEGF growth factor family.

Contains 1 CUB domain.

発生段階

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

翻訳後修飾

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.

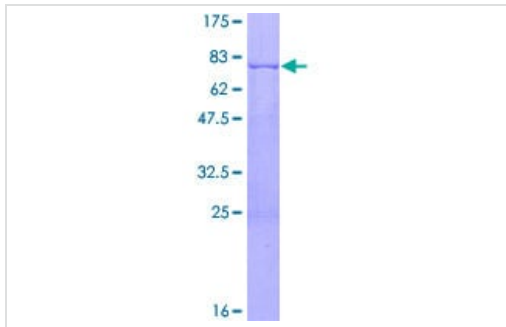
Sumoylated by SUMO1.

N-glycosylated.

細胞内局在

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

画像



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

SDS-PAGE - Recombinant Human PDGFC protein
(ab132727)

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