

Recombinant Human PDGFC protein ab132727

1 图像

描述	
产品名称	重组人PDGFC蛋白
表达系统	Wheat germ
Accession	<u>Q9NRA1</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MSLFGLLLLT SALAGQRQGTQ AESNLSSKFQ FSSNKEQNGVQ DPQHERII TVSTNGSIHSP RFPHTYPRNT VLVWRLVAVE ENVWQLTFDE RFGLEDPE DDICKYDFVE VEEPSDGTIL GRWCGSGTV PGKQISKGNQ IRIRFVSDEYF PSEPGFCIHY NIVMPQFTEA VSPSVLPPSA LPLDLLNNAIT AFSTLEDLI RYLEPERWQL DLEDLYRPTW QLLGKAFVFG RKSRVVDLNLL T EEVRLYSC TPRNFVS SIREELKRTD TIFWPGCLLV KRCGGNCACCL HNCN ECQCVPSK VTKKYHEVLQ LRPKTGVRGL HKSLTDVALE HHEECDVCVRG STGG
预测分子量	65 kDa including tags
氨基酸	1 to 345

技术指标	
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.	
应用	ELISA SDS-PAGE Western blot
形式	Liquid

补充说明

制备和贮存

稳定性和存储

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

常规信息

功能

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.

组织特异性

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.

序列相似性

Belongs to the PDGF/VEGF growth factor family.

Contains 1 CUB domain.

发展阶段

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

翻译后修饰

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.

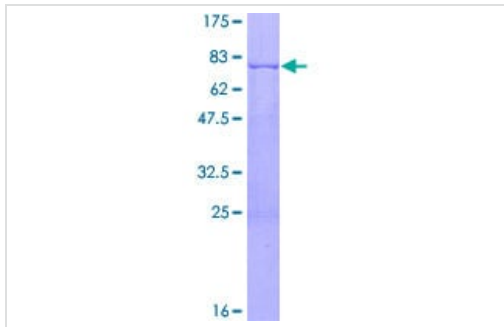
Sumoylated by SUMO1.

N-glycosylated.

细胞定位

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

图片



SDS-PAGE - Recombinant Human PDGFC protein
(ab132727)

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

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