



Rabbit Anti-PDGFC polyclonal antibody (CABT-RM101)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects full length platelet derived growth factor C (PDGF-C) and also the 18 kDa growth factor domain.
Target	PDGF-C
Immunogen	A linear peptide corresponding to 21 amino acids from the C-terminal growth factor domain of human Platelet-derived growth factor C (PDGF-C).
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Affinity Purified
Conjugate	unconjugated
Applications	WB
Epitope	C-terminus
Molecular Weight	~48 kDa observed; 39.03 kDa calculated. Uncharacterized bands may be observed in some lysate(s).
Format	Liquid
Size	100 µg
Buffer	PBS

Preservative	0.05% sodium azide
Storage	Stable for 1 year at 2-8°C from date of receipt.

BACKGROUND

Introduction	<p>Platelet-derived growth factor C is encoded by the PDGFC gene in human. PDGF-C is a disulfide-linked homodimeric growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. It also plays an important role in wound healing and angiogenesis. It also serves as a potent mitogen and chemoattractant for cells of mesenchymal origin. It is synthesized with a signal peptide (aa 1-22), which is subsequently cleaved off in the mature form. Its CUB domain is localized to amino acids 46 to 163 and proteolytic removal of the CUB domain is essential for unmasking the receptor-binding epitopes of the core domain. PDGF-C is 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. Its high expression is also reported in retinal pigment epithelia. In the kidney, it is constitutively expressed in parietal epithelial cells of Bowman's capsule, tubular epithelial cells, and in arterial endothelial cells. Higher levels of PDGF-C and have been reported in the malignant breast tumor microenvironment. In MCF-7 cells increased expression of PDGF-C is reported to enhance cell proliferation and tumor cell motility. Tissue plasminogen activator and matriptase are shown to process PDGF-C in MCF-7 cells to its active form.</p>
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Keywords	PDGFC; platelet derived growth factor C; SCDGF; FALLOTEIN; platelet-derived growth factor C; PDGF-C; VEGF-E; spinal cord-derived growth factor; secretory growth factor-like protein; anti-PDGF-C
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GENE INFORMATION

Entrez Gene ID	56034
UniProt ID	Q9NRA1