

ARG82518 Rat PDGF CC ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82518-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82518-002	Standard	2 X 10 ng/vial	4°C
ARG82518-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82518-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82518-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82518-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82518-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82518-008	25X Wash buffer	20 ml	4°C
ARG82518-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82518-010	STOP solution	10 ml (Ready to use)	4°C
ARG82518-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82518 Rat PDGF CC ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat PDGF CC in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Target Name	PDGF CC
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	10 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.6% Inter-Assay CV: 6.0%

Alternate Names	Spinal cord-derived growth factor; Fallotein; PDGFC receptor-binding form; SCDGF; FALLOTEIN; VEGF-E; Platelet-derived growth factor C; PDGFC latent form; PDGF-C
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Application Instructions

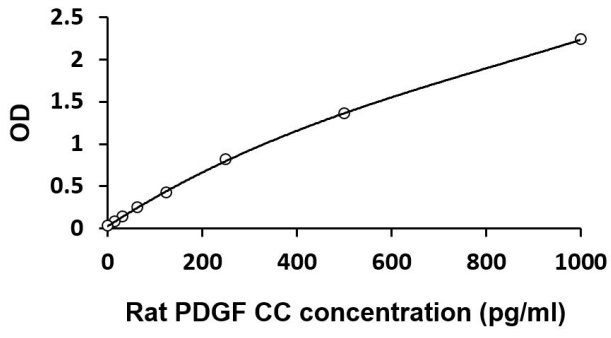
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	PDGFC
Gene Full Name	platelet derived growth factor C
Background	The protein encoded by this gene is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a core motif of eight cysteines. This gene product appears to form only homodimers. It differs from the platelet-derived growth factor alpha and beta polypeptides in having an unusual N-terminal domain, the CUB domain. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2010]
Function	Growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. Potent mitogen and chemoattractant for cells of mesenchymal origin. Required for normal skeleton formation during embryonic development, especially for normal development of the craniofacial skeleton and for normal development of the palate. Required for normal skin morphogenesis during embryonic development. Plays an important role in wound healing, where it appears to be involved in three stages: inflammation, proliferation and remodeling. Plays an important role in angiogenesis and blood vessel development. Involved in fibrotic processes, in which transformation of interstitial fibroblasts into myofibroblasts plus collagen deposition occurs. 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. [UniProt]
Highlight	Related products: PDGF antibodies ; PDGF ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	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 with SUMO1. N-glycosylated. [UniProt]
Cellular Localization	Cytoplasm, cytosol. Secreted. Nucleus. Cytoplasmic granule. Cell membrane. Note=Sumoylated form is predominant in the nucleus (PubMed:15247255). Stored in alpha granules in platelets (PubMed:15061151). [UniProt]



ARG82518 Rat PDGF CC ELISA Kit standard curve image

ARG82518 Rat PDGF CC ELISA Kit results of a typical standard run with optical density reading at 450 nm.