

## ARG82651 Mouse PDGF AB ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82651-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82651-002	Standard	2 X 10 ng/vial	4°C
ARG82651-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82651-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82651-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82651-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82651-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82651-008	25X Wash buffer	20 ml	4°C
ARG82651-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82651-010	STOP solution	10 ml (Ready to use)	4°C
ARG82651-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82651 Mouse PDGF AB ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse PDGF AB in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	PDGF AB
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	16 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.4% Inter-Assay CV: 7.1%

<b>Alternate Names</b>	<p>PDGFA: Platelet-derived growth factor subunit A; PDGF subunit A; Platelet-derived growth factor alpha polypeptide; Platelet-derived growth factor A chain; PDGF-1; PDGF1; PDGF-A</p> <p>PDGFB: SIS; Becaplermin; Platelet-derived growth factor subunit B; IBGC5; PDGF subunit B; c-sis; SSV; PDGF-2; Proto-oncogene c-Sis; Platelet-derived growth factor beta polypeptide; PDGF2; Platelet-derived growth factor B chain</p>
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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	PDGFA; PDGFB
Gene Full Name	platelet-derived growth factor alpha polypeptide platelet-derived growth factor beta polypeptide
Background	<p>PDGFA: This gene encodes a member of the protein family comprised of both platelet-derived growth factors (PDGF) and vascular endothelial growth factors (VEGF). The encoded preproprotein is proteolytically processed to generate platelet-derived growth factor subunit A, which can homodimerize, or alternatively, heterodimerize with the related platelet-derived growth factor subunit B. These proteins bind and activate PDGF receptor tyrosine kinases, which play a role in a wide range of developmental processes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]</p> <p>PDGFB: This gene encodes a member of the protein family comprised of both platelet-derived growth factors (PDGF) and vascular endothelial growth factors (VEGF). The encoded preproprotein is proteolytically processed to generate platelet-derived growth factor subunit B, which can homodimerize, or alternatively, heterodimerize with the related platelet-derived growth factor subunit A. These proteins bind and activate PDGF receptor tyrosine kinases, which play a role in a wide range of developmental processes. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 17, at sites where this gene and that for collagen type 1, alpha 1 are located, are associated with dermatofibrosarcoma protuberans, a rare skin tumor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]</p>
Function	<p>PDGFA: Growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. Potent mitogen for cells of mesenchymal origin. Required for normal lung alveolar septum formation during embryogenesis, normal development of the gastrointestinal tract, normal development of Leydig cells and spermatogenesis. Required for normal oligodendrocyte development and normal myelination in the spinal cord and cerebellum. Plays an important role in wound healing. Signaling is modulated by the formation of heterodimers with PDGFB (By similarity). [UniProt]</p> <p>PDGFB: Growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. Potent mitogen for cells of mesenchymal origin (PubMed:26599395). Required for normal proliferation and recruitment of pericytes and vascular smooth muscle cells in the central nervous system, skin, lung, heart and placenta. Required for normal blood vessel development, and for normal development of kidney glomeruli. Plays an important role in wound healing. Signaling is modulated by the formation of heterodimers with PDGFA (By similarity). [UniProt]</p>
Highlight	<p>Related products:</p> <p><a href="#">PDGF antibodies</a>; <a href="#">PDGF ELISA Kits</a>;</p>

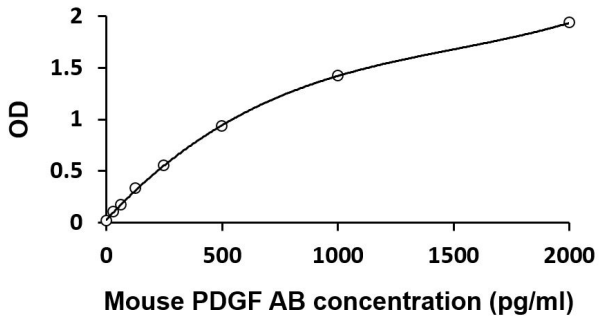
New ELISA data calculation tool:  
[Simplify the ELISA analysis by GainData](#)

Cellular Localization

PDGFA and PDGFB: Secreted. Note=Released by platelets upon wounding. [UniProt]

## Images

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ARG82651 Mouse PDGF AB ELISA Kit standard curve image

ARG82651 Mouse PDGF AB ELISA Kit results of a typical standard run with optical density reading at 450 nm.