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ARG82638
Porcine PDGF (total) ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82638 Porcine PDGF (total) ELISA Kit is an Enzyme Immunoassay kit for the quantification of Porcine PDGF (total) in serum, plasma and cell culture supernatants.
Tested Reactivity	Pig
Tested Application	ELISA
Specificity	This kit reacts to PDGF-A, PDGF-B, PDGF-C, PDGF-D, PDGF-AA, PDGF-AB and PDGF-BB proteins. The following recombinant Porcine proteins were tested and exhibited no cross-reactivity or interference: ApoAI, BMP1, BMP2, BMP3, BMP4, HGF, HSP27, IFN gamma, IL1 beta, IL1RA, IL2, IL5, IL6, IL8, IL10, IL12, IL13, IL15, IL17C, IL23, MMP2, MMP9, sIL2R, sIL6R, TGF beta 1, TGF beta 2, TGF beta 3, TLR1, TLR2, TLR3, TNF alpha, TNF RI, TNF RII and VEGF.
Target Name	PDGF (total)
Conjugation	HRP
Conjugation Note	Read at 450 nm.
Sensitivity	23.5 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	47 - 3000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4% Inter-Assay CV: 9%
Alternate Names	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 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

Application Instructions

Assay Time	~ 3 hours

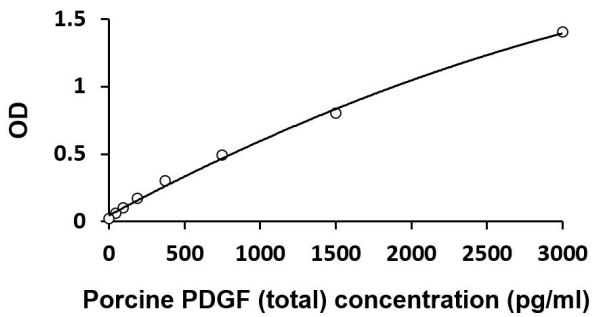
Properties

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	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] 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]
Function	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. [UniProt] 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. [UniProt]
Highlight	Related products: PDGF antibodies; PDGF ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Cellular Localization	Secreted. Note=Released by platelets upon wounding. [UniProt]

Images



ARG82638 Porcine PDGF (total) ELISA Kit standard curve image

ARG82638 Porcine PDGF (total) ELISA Kit results of a typical standard run with optical density reading at 450 nm.