

ARG82286
Porcine VEGF ELISA KitPackage: 96 wells
Store at: 4°C

Summary

Product Description	ARG82286 Porcine VEGF ELISA Kit is an Enzyme Immunoassay kit for the quantification of Porcine VEGF in serum and plasma.
Tested Reactivity	Pig
Tested Application	ELISA
Specificity	Not react with following recombinant porcine proteins: ApoAI, BMP1, BMP2, BMP4, BMP7, HGF, HSP27, IL1 beta, IL1 RA, IL2, I-2R, IL5, IL6, IL6R, IL8, IL10, IL12, IL13, IL15, IL17C, IL23, IFN gamma, MMP2, MMP9, PDGF AA, PDGF BB, PDGF AB, TGF beta 1, TGF beta 2, TGF beta 3, TLR1, TLR2, TLR3, TNF alpha, TNF RI and TNF RII.
Target Name	VEGF
Conjugation	HRP
Conjugation Note	Read at 450 nm.
Sensitivity	19.5 pg/ml
Sample Type	Serum and plasma.
Standard Range	39 - 2500 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4% Inter-Assay CV: 9%
Alternate Names	MVCD1; Vascular permeability factor; VEGF-A; VPF; VEGF; Vascular endothelial growth factor A

Application Instructions

Assay Time	~ 3 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	VEGFA
Gene Full Name	vascular endothelial growth factor A
Background	This gene is a member of the PDGF/VEGF growth factor family and encodes a protein that is often found as a disulfide linked homodimer. This protein is a glycosylated mitogen that specifically acts on

endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Elevated levels of this protein is linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. There is also evidence for the use of non-AUG (CUG) translation initiation sites upstream of, and in-frame with the first AUG, leading to additional isoforms. [provided by RefSeq, Jul 2008]

Function

Growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. Binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. NRP1/Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform VEGF165B binds to KDR but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor growth. [UniProt]

Highlight

Related products:

[VEGF antibodies](#); [VEGF ELISA Kits](#); [VEGF Duos / Panels](#); [VEGF recombinant proteins](#);

Related news:

[The role of HDGF in tumor angiogenesis](#)

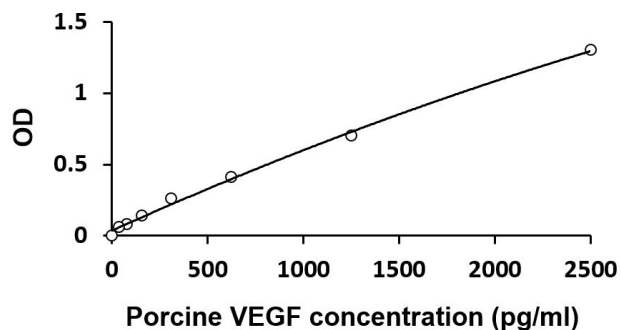
New ELISA data calculation tool:

[Simplify the ELISA analysis by GainData](#)

Cellular Localization

Secreted. Note=VEGF121 is acidic and freely secreted. VEGF165 is more basic, has heparin-binding properties and, although a significant proportion remains cell-associated, most is freely secreted. VEGF189 is very basic, it is cell-associated after secretion and is bound avidly by heparin and the extracellular matrix, although it may be released as a soluble form by heparin, heparinase or plasmin. [UniProt]

Images



ARG82286 Porcine VEGF ELISA Kit standard curve image

ARG82286 Porcine VEGF ELISA Kit results of a typical standard run with optical density reading at 450 nm.