

## ARG81305 Human VEGF165 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Summary

Product Description	ARG81305 Human VEGF165 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human VEGF165 in serum, plasma and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	No cross reaction with VEGF-121, VEGF-145, VEGF-B, VEGF-C, VEGF-D, VEGF-R1, Ang-2, GM-CSF, IFN gamma, IL-29. Shows cross reactivity with VEGF-189 isoform.
Target Name	VEGF165
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.9 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	31.25 - 1000 pg/ml
Sample Volume	50 µl
Alternate Names	MVCD1; Vascular permeability factor; VEGF-A; VPF; VEGF; Vascular endothelial growth factor A

### Application Instructions

Assay Time	~ 4 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

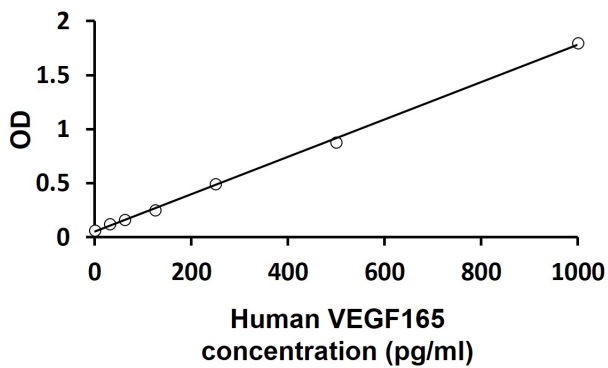
isoforms, have been characterized. There is also evidence for the use of non-AUG (CUG) translation initiation sites upstream of, and in-frame with the first AUG, leading to additional isoforms. [provided by RefSeq, Jul 2008]

**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]

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

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ARG81305 Human VEGF165 ELISA Kit standard curve image

ARG81305 Human VEGF165 ELISA Kit results of a typical standard run with optical density reading at 450 nm.