

Human VEGF ELISA Kit | VEGF elisa kit

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CATALOG #
AAA309874

REACTIVITY
Human

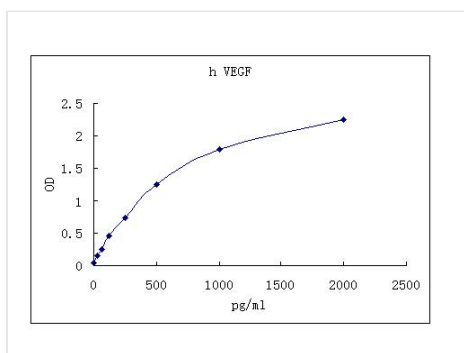
PRODUCT SYNONYMS

VEGF; Human VEGF ELISA KIT; Human VEGF; VEGF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human VEGF Ligand
Assay Type	Solid Phase Sandwich ELISA
Samples	Cell culture supernatant, serum, plasma (EDTA, citrate, heparin)
Detection Range	31.25-2000pg/mL
Sensitivity	7pg/mL
Assay Time	3 hours
Sample Volume	20 uL
Detection Method	Colorimetric
Preparation and Storage	Store at 4 degree C

IMAGES



Standard Curve (Sample)

Representative standard curve for VEGF ELISA. VEGF was diluted in serial two-fold steps in Sample Diluent.

ADDITIONAL INFORMATION

Related Product Information for VEGF elisa kit	Vascular endothelial growth factor (VEGF or VEGF-A), also known as vascular permeability factor (VPF), is well known for its important roles in regulating both physiological and pathological blood vessel growth (1). It is a member of the VEGF family that also includes VEGF-B, -C, -D, -E, and PlGF (placental growth factor) (2). Family members exhibit a cysteine knot motif formed by eight characteristically spaced cysteine residues (3 - 5). Various cells and tissues express VEGF including skeletal and cardiac muscle, hepatocytes, osteoblasts, neutrophils, macrophages, keratinocytes, platelets, brown adipose tissue, CD34+ cells, astrocytes, neurons, and endothelial cells (6-17). VEGF can be detected in both human plasma and serum samples, with higher levels found in serum due to its release from platelets (17). VEGF transcription is potentiated in response to hypoxia, oncogenic transformation, and growth factors. VEGF has several physiological roles both during development and in the adult. It has a well-documented and critical role in embryonic vasculogenesis (1). Targeted deletion of a single VEGF allele results in significant defects in vascular development and is embryonic lethal (18). VEGF acts as an endothelial cell survival factor, mitogen, and inducer of migration, functions that potentially involve an array of signaling molecules including G proteins, PI3 kinase, MAP kinases, FAK, PKC, and NO (3, 19-25). VEGF affects bone formation by regulating blood vessel growth and cartilage remodeling, activities important for growth plate morphogenesis (26). In the adult, VEGF has potential roles in cyclic angiogenesis in the female reproductive system. Other diverse functions include the regulation of hematopoietic development and roles as a neurotrophic factor. VEGF has received much attention for its involvement in tumor-associated angiogenesis and its potential as a target for cancer therapy. Numerous studies have demonstrated that VEGF or its receptors are upregulated in several forms of human cancer. Neutralizing VEGF antibodies are shown to reduce tumor growth in cancer models.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	661346603
NCBI GeneID	397157
Molecular Weight	22,368 Da
NCBI Official Full Name	VEGF, partial
NCBI Official Symbol	VEGFA
NCBI Official Synonym Symbols	VEGF
NCBI Protein Information	vascular endothelial growth factor A
UniProt Protein Name	Vascular endothelial growth factor A
UniProt Gene Name	VEGFA
UniProt Synonym Gene Names	VEGF; VEGF-A; VPF

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.