

Human VEGF ELISA Kit | VEGFA elisa kit

Human VEGF Quick ELISA Kit

CATALOG #
AAA125866

REACTIVITY
Human

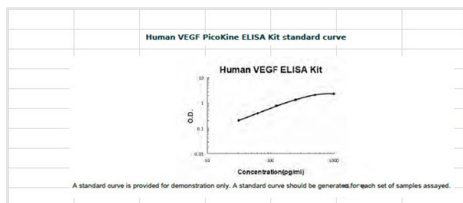
PRODUCT SYNONYMS

VEGF; Human VEGF Quick ELISA Kit; VEGFA|MVCD1; VAS; vascular endothelial growth factor A; Vascular permeability factor; Vasculotropin; VEGFA; VEGF-A; VEGFMGC70609; VPF; VPF vascular endothelial growth factor; VEGFA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human VEGFA
Samples	Cell culture supernatants, serum and plasma (heparin, edta
Assay Type	Sandwich
Detection Range	31.2 pg/ml - 2,000 pg/ml (human serum,plasma), 15.6 pg/ml - 1,000 pg/ml (cell culture supernates)
Sensitivity	<1 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for VEGFA elisa kit	Principle of the Assay: The Quick Picokine™ Human VEGFA Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human VEGFA in cell culture supernatants, serum and plasma (heparin, EDTA, citrate). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Human VEGFA with immunogen: Expression system for standard: NS0; Immunogen sequence: A27-R191. To measure Human VEGFA, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Human VEGFA in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human VEGFA in the sample. Background/Introduction: Vascular permeability factor/vascular endothelial growth factor (VPF/VEGF), a potent cytokine expressed by most malignant tumors, has critical roles in vasculogenesis and both physiological and pathological angiogenesis.VEGF produced by tumor cells potently stimulates endothelial cell proliferation and angiogenesis and plays a key role in the pathophysiology of several neoplasias. VEGF may also play a pivotal role in mediating the development and progression of diabetic retinopathy.VEGF, a major regulator of angiogenesis, binds to two receptor tyrosine kinases, KDR/Flk-1 and Flt-1. The VEGF gene is mapped by fluorescence in situ hybridization to chromosome 6p12.
Product Categories/Family for VEGFA elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	324120930
NCBI GeneID	7422
NCBI Accession #	NP_001191313.1
NCBI GenBank Nucleotide #	NM_001204384.1
UniProt Accession #	P15692; O60720; O75875; Q074Z4; Q16889; B5BU86; HOY2S8; HOY407; HOY414; HOY462; HOY8N2; H3BLW7
Molecular Weight	27,042 Da
NCBI Official Full Name	vascular endothelial growth factor A isoform q
NCBI Official Synonym Full Names	vascular endothelial growth factor A
NCBI Official Symbol	VEGFA
NCBI Official Synonym Symbols	VPF; VEGF; MVCD1
NCBI Protein Information	vascular endothelial growth factor A; vascular permeability factor
UniProt Protein Name	Vascular endothelial growth factor A
UniProt Gene Name	VEGFA
UniProt Synonym Gene Names	VEGF; VEGF-A; VPF
UniProt Entry Name	VEGFA_HUMAN

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.