

Rat VEGF ELISA Kit | VEGFA elisa kit

Rat VEGF PicoKine ELISA Kit

CATALOG #
AAA11544

REACTIVITY
Rat

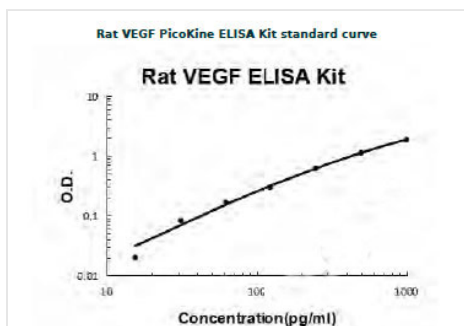
PRODUCT SYNONYMS

VEGF; Rat VEGF PicoKine ELISA Kit; Vascular endothelial growth factor A; vascular endothelial growth factor A; MGC70609; MVCD1; Vascular endothelial growth factor; Vascular permeability factor; VEGF A; VEGFA; VPF; VEGFA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat Vegfa
Sequence Length	369
Samples	Cell culture supernatants, serum and plasma (heparin, edta, citrate)
Detection Range	15.6 pg/ml - 1,000 pg/ml
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: Picokine™ Rat Vegfa Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Rat Vegfa with a 96-well strip plate that is pre-coated with antibody specific for Vegfa. The detection antibody is a biotinylated antibody specific for Vegfa. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Rat Vegfa with immunogen: Expression system for standard: NS0; Immunogen sequence: A27-R190. The kit is analytically validated with ready-to-use reagents. To measure Rat Vegfa, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP 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 at 450nm is linearly proportional to Rat 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 Rat 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.The standard product used in this kit is recombinant rat VEGF164, which is a 25KDa single chain as well as a 50KDa dimer.
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NCBI AND UNIPROT INFORMATION

NCBI GeneID	83785
UniProt Accession #	B5DEK7; P16612
Molecular Weight	40,241 Da
NCBI Official Synonym Full Names	vascular endothelial growth factor A
NCBI Official Symbol	Vegfa
NCBI Official Synonym Symbols	VPF; Vegf; VEGF-A; VEGF164
NCBI Protein Information	vascular endothelial growth factor A; vascular permeability factor
UniProt Protein Name	Vascular endothelial growth factor A
UniProt Gene Name	Vegfa
UniProt Entry Name	B5DEK7_RAT

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.