

Rat Vascular Endothelial Growth Factor A (VEGFA) ELISA Kit | VEGFA elisa kit

Rat Vascular Endothelial Growth Factor A (VEGFA) Mini Samples ELISA Kit

CATALOG #
AAA190176

REACTIVITY
Rat

PRODUCT SYNONYMS

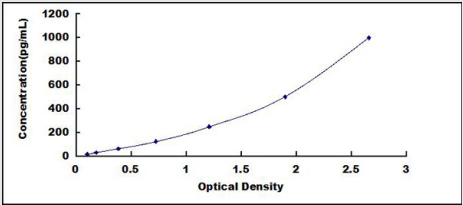
Vascular Endothelial Growth Factor A (VEGFA); Rat Vascular Endothelial Growth Factor A (VEGFA) Mini Samples ELISA Kit; VEGFA Mini-sample ELISA kit (Rat); Vascular Endothelial Growth Factor A; VEGF; VEGF-A; VPF; Vascular Endothelial Cell Growth Factor A; Vascular Permeability Factor; VEGFA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Mini Samples Vascular Endothelial Growth Factor A (VEGFA). No significant cross-reactivity or interference between Mini Samples Vascular Endothelial Growth Factor A (VEGFA) and analogues was observed. Reactive with Rat VEGFA/Vascular Endothelial Growth Factor A
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	15.6-1,000pg/mL
Sensitivity	6.0pg/mL
Sample Size	15-25uL
Detection Method	Colormetric
Featured Series	ME kit
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Mini Samples Vascular Endothelial Growth Factor A (VEGFA) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Mini Samples Vascular Endothelial Growth Factor A (VEGFA) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Function	Detects protein (micro-volume samples 15-25 ul)
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 25ul standard or sample to each well. Incubate 1 hour at 37 degree C 3. Aspirate and add 25ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 25ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 25ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 20ul Stop Solution. Read at 450nm immediately.

Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Mini Samples Vascular Endothelial Growth Factor A (VEGFA). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Mini Samples Vascular Endothelial Growth Factor A (VEGFA). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Mini Samples Vascular Endothelial Growth Factor A (VEGFA), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Mini Samples Vascular Endothelial Growth Factor A (VEGFA) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Cytokine, Apoptosis, Tumor immunity
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

NCBI GI #	160358797
NCBI GeneID	83785
NCBI Accession #	NP_001103804.1
NCBI GenBank Nucleotide #	NM_001110334.2
UniProt Accession #	P16612; Q541S6; Q91ZE1; Q9JKX7; Q9QXG6; Q9QXG7
Molecular Weight	17,189 Da
NCBI Official Full Name	vascular endothelial growth factor A isoform 3
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
UniProt Protein Name	Vascular endothelial growth factor A
UniProt Gene Name	Vegfa
UniProt Synonym Gene Names	Vegf; VEGF-A; VPF
UniProt Entry Name	VEGFA_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.

