

Datasheet for ABIN5680029
VEGF IQ-ELISA Kit



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4 Images

Overview

Quantity:	96 tests
Target:	VEGF
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Human Immunoquantitative (PCR-Based) VEGF ELISA Kit for cell culture supernatants, plasma, and serum samples.
Sample Type:	Cell Culture Supernatant, Plasma, Serum
Analytical Method:	Semi-Quantitative
Detection Method:	qPCR
Sensitivity:	1 pg/mL
Characteristics:	The Immuno Quantitative Enzyme Linked ImumunoSorbent Assay (IQELISA) is an innovative assay that combines the specificity and ease of use of an ELISA with the sensitivity of real-time PCR. This results in an assay that is simultaneously familiar and cutting edge and enables the use of lower sample volumes while also providing more sensitivity. The Human VEGF IQELISA kit is a modified ELISA assay with high sensitivity qPCR readout for the quantitative measurement of human VEGF in serum, plasma, and cell culture supernatants. This assay employs an antibody specific for human VEGF coated on a 96-well PCR plate. Standards and samples are pipetted into the wells and VEGF present in a sample is bound to the wells by the immobilized antibody. The wells are washed and a detection affinity molecule is added to the

Product Details

plates. After washing away unbound detection affinity molecule, primers and a PCR master mix are added to the wells and data is collected using qPCR. Ct values obtained from the qPCR are then used to calculate the amount of antigen contained in each sample, where lower Ct values indicate a higher concentration of antigen.

Components:	<ul style="list-style-type: none">• VEGF Microplate (Item A): 96 well PCR plate coated with anti-human VEGF• Wash Buffer I Concentrate (20x) (Item B): 20x concentrated solution• Standards (Item C): recombinant human VEGF• Assay Diluent A (Item D): diluent buffer, 0.09% sodium azide as preservative. For Standard/Sample (serum/plasma) diluent• Assay Diluent B (Item E): 5x concentrated buffer. For Standard/Sample (cell culture medium/urine) diluent• Detection Affinity Reagent for VEGF (Item F): 4x concentrated solution of anti-human VEGF affinity reagent• Primer Solution (Item G)• PCR Master Mix (Item H)• PCR Preparation buffer (Item I): 10x concentrated buffer• Final Wash Buffer (Item J): 10x concentrated buffer
Material not included:	<ul style="list-style-type: none">• Real-time PCR instrument, Bio-Rad recommended• Precision pipettes to deliver 2 µL to 1 mL volumes• Adjustable 1-25 mL pipettes for reagent preparation• 100 mL and 1 liter graduated cylinders• Absorbent paper• Distilled or deionized water• Log-log graph paper or computer and software for data analysis• Tubes to prepare standard or sample dilutions• Heating block or water bath capable of 80 °C

Target Details

Target:	VEGF
Alternative Name:	VEGF (VEGF Products)
Background:	Synonyms: Vascular endothelial growth factor A (VEGF-A) (Vascular permeability factor) (VPF), VEGFA VEGF
Gene ID:	7422
UniProt:	P15692

Application Details

Application Notes:	The Immuno-Quantitative ELISA (IQELISA) kits are an innovative assay platform that combines the specificity and ease of use of an ELISA with the sensitivity of real-time PCR. This results in an assay that is simultaneously familiar and cutting edge and enables the use of only 1/10th the sample volume while also providing 10x more sensitivity than a traditional ELISA.
Comment:	<p>Features:</p> <ul style="list-style-type: none">- Excellent for follow up/confirmation of antibody array data- Pre-coated 96 well plate- Strip plate format minimizes waste- Complete kit includes all necessary reagents- 10x more sensitive than ELISA- Reproducible and reliable- Optimized for serum, plasma, urine and cell culture medium- 1/10th the sample volume of an ELISA <p>Research Applications:</p> <ul style="list-style-type: none">- Detection of quantitative protein levels in biological fluids- Validation of antibody array results- Validation of biomarker discovery studies
Plate:	Pre-coated
Protocol:	<ol style="list-style-type: none">1. Prepare all reagents, samples and standards as instructed2. Add 25 µL standard or sample to each well. Incubate for 2.5 hours at room temperature or overnight at 4 °C3. Add 25 µL detection affinity reagent to each well. Incubate 1 hour at room temperature4. Add 15µL Primer solution to each well5. Add 10µL of PCR Master Mix to each well6. Run real-time PCR
Sample Preparation:	Recommended Dilution (serum & plasma): 3 - 10 fold
Assay Precision:	Serum spike tests show recovery is 93.3% with a range of 89.7 to 98.0%
Restrictions:	For Research Use only
Handling	
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	May be stored for up to 6 months at 2° to 8°C from the date of shipment. Standard

Handling

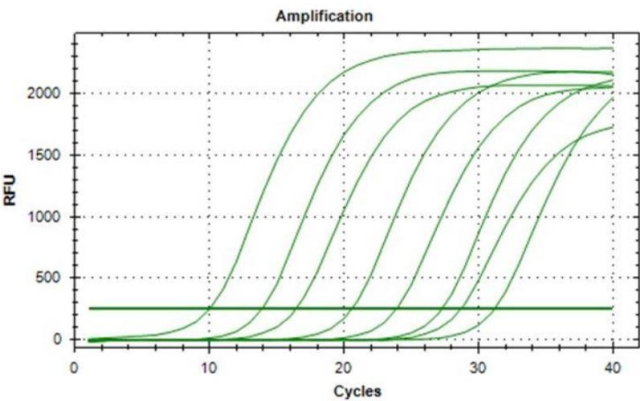
(recombinant protein) should be stored at -20°C or -80°C (recommended at -80°C) after reconstitution. Opened PCR plate or reagents may be stored for up to 1 month at 2° to 8

Expiry Date: 6 months

Images

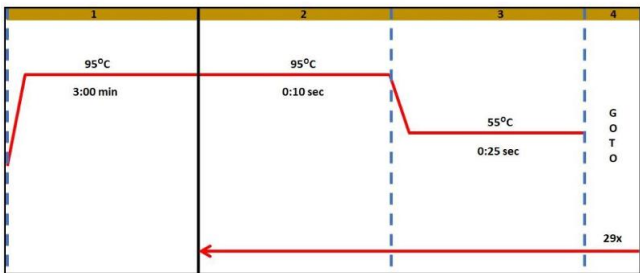
Polymerase Chain Reaction

Image 1.



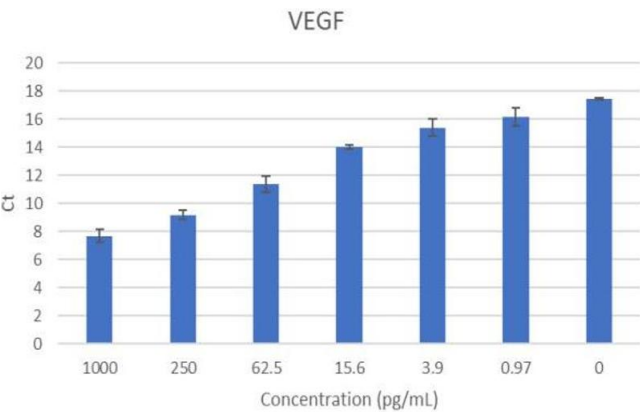
Polymerase Chain Reaction

Image 2.



ELISA

Image 3.



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN5680029.