

## Datasheet for ABIN1112705 FLT1 ELISA Kit



Overview

Quantity:	96 tests
Target:	FLT1
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

## Product Details

Purpose:	For quantitative detection of VEGFR1 in human serum, plasma, body fluids, tissue lysates or cell culture supernatants.
Sample Type:	Cell Culture Supernatant, Plasma, Serum, Tissue Lysate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	< 4 pg/mL
Components:	1. One 96-well plate pre-coated with anti-human VEGFR1 antibody 2. Lyophilized human VEGFR1 standards: 2 tubes (10ng / tube) 3. Sample / Standard diluent buffer: 30ml 4. Biotin conjugated anti-human VEGFR1 antibody (Concentrated): 130 μl.
Material not included:	1. 37 °C incubator 2. Microplate reader (wavelength: 450nm) 3. Precise pipette and disposable pipette tips 4. Automated plate washer 5. ELISA shaker 6. 1.5ml of Eppendorf tubes 7. Plate cover 8. Absorbent filter papers 9. Plastic or glass container with volume of above 1L

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## Target Details

Target:	FLT1
Alternative Name:	VEGF-R1 (FLT1 Products)
Background:	Vascular endothelial growth factor receptor 1 (VEGFR1), also known as FLT1, is a protein that in
	humans is encoded by the FLT1 gene, which maps to 13q12. Oncogene FLT belongs to the src
	gene family and is related to oncogene ROS. Like other members of this family, it shows
	tyrosine protein kinase activity that is important for the control of cell proliferation and
	differentiation. The deduced 1,338-amino acid protein has a calculated molecular mass of
	150.6 kD. The sequence structure of the FLT gene resembles that of the FMS gene, hence,
	Yoshida et al. (1987) proposed the name FLT as an acronym for FMS-like tyrosine kinase.
Pathways:	RTK Signaling, Signaling Events mediated by VEGFR1 and VEGFR2, VEGFR1 Specific Signals

## Application Details

Comment:	This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-
	VEGFR1 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-
	VEGFR1 polyclonal antibody was used as detection antibodies. The standards test samples
	and biotin conjugated detection antibody were added - the wells subsequently and wash with
	wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were
	washed away with wash buffer. TMB substrates were used - visualize HRP enzymatic reaction.
	TMB was catalyzed by HRP - produce a blue color product that changed into yellow after
	adding acidic stop solution. The density of yellow is proportional - the VEGFR1 amount of
	sample captured in plate. Read the O.D. absorbance at 450 nm in a microplate reader and then
	the concentration of VEGFR1 can be calculated.
Plate:	Pre-coated

Reagent Preparation:1. Before the experiment, centrifuge each kit component for several minutes to bring down all<br/>reagents to the bottom of tubes. 2. It is recommend to measure each standard and sample in<br/>duplicate. 3. Do NOT let the plate completely dry at any time! Since the dry condition can<br/>inactivate the biological material on the plate. 4. Do not reuse pipette tips and tubes to avoid<br/>cross contamination. 5. Do not use the expired components and the components from different<br/>batches. 6. To avoid the marginal effect of plate incubation for temperature differences (the<br/>marginal wells always get stronger reaction), it is recommend to equilibrate the ABC working<br/>solution and TMB substrate for at least 30 min at room temperature (37°C ) before adding to<br/>wells.The TMB substrate (Kit Component 8) is colorless and transparent before use, if not,<br/>please contact us for replacement.

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Application Details	
Sample Preparation:	Preparation of sample and reagents 1. Sample Isolate the test samples soon after collecting,
	then, analyze immediately (within 2 hours). Or aliquot and store at -20 °C for long term. Avoid
	multiple freeze-thaw cycles.
	Tissue lysate or body fluids and cell culture supernatants: Centrifuge to remove precipitate,
	analyze immediately or aliquot and store at -20 °C .
	Serum: Coagulate the serum at room temperature (about 4 hours). Centrifuge at approximately
	1000 × g for 15 min. Analyze the serum immediately or aliquot and store at -20 °C .
	Plasma: Collect plasma with EDTA as the anticoagulant. Centrifuge for 15 min at 1000 x g
	within 30 min of collection. Analyze immediately or aliquot and store frozen at -20 °C. Citrate
	and heparin can not be used as anticoagulant here. Note: 1. Coagulate blood samples
	completely, then, centrifuge, and avoid hemolysis and particle. 2. NaN3 can not be used as test
	sample preservative, since it is the inhibitor for HRP.
Restrictions:	For Research Use only
Handling	
Preservative:	Sodium azide, Thimerosal (Merthiolate)