

## Datasheet for ABIN1112707 FLT4 ELISA Kit



Overview

Quantity:	96 tests
Target:	FLT4
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	30-850 pg/mL
Minimum Detection Limit:	30 pg/mL
Application:	ELISA

## Product Details

Purpose:	For quantitative detection of VEGFR3 in Human serum, plasma, urine, cell culture supernatant or tissue samples.
Sample Type:	Serum, Plasma, Urine, Tissue Samples, Cell Culture Supernatant
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Components:	1. One 96-well plate pre-coated with anti-human VEGFR3 antibody 2. Standard: 0.5ml (900pg /mL) 3. Standard diluent buffer: 1.5 ml 4. Wash buffer (30x): 20 ml.
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:	FLT4
Alternative Name:	VEGF-R3 (FLT4 Products)
Background:	VEGF receptors are receptors for vascular endothelial growth factor (VEGF). They play an
	essential role in the regulation of angiogenesis, vascular development, vascular permeability,
	and embryonic hematopoiesis. There are three main subtypes of VEGFR, numbered 1, 2 and 3.
	VEGFR3 has an essential role in the development of the embryonic cardiovascular system
	before the emergence of the lymphatic vessels. It may function as a decoy receptor for VEGFC
	and/or VEGFD and play an important role as a negative regulator of VEGFC-mediated
	lymphangiogenesis and angiogenesis. VEGFR3 provides proangiogenic signaling when
	expressed on endothelium, may also have antiangiogenic properties when expressed at an
	avascular site by nonendothelial cells.
Pathways:	RTK Signaling, Signaling Events mediated by VEGFR1 and VEGFR2, VEGF Signaling
Application Details	
Comment:	This kit was based on standard sandwich enzyme-linked immune-sorbent assay technology.
	The purified anti-VEGFR3 antibody was pre-coated onto 96-well plates. And the HRP conjugated
	anti-VEGFR3 antibody was used as detection antibodies. The standards test samples and HRP
	conjugated detection antibody were added to the wells subsequently mixed and incubated then
	unbound conjugates were washed away with wash buffer. TMB substrates (A $\&$ B) were used to
	visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product
	that changed into yellow after adding acidic stop solution. The density of yellow is proportional
	to the VEGFR3 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a
	microplate reader and then the concentration of VEGFR3 can be calculated.
Plate:	Pre-coated
Reagent Preparation:	1. Before the experiment, centrifuge each kit component for several minutes to bring down all
	reagents to the bottom of tubes. 2. It is recommend to measure each standard and sample in
	duplicate. 3. Do NOT let the plate completely dry at any time! Since the dry condition can
	inactivate the biological material on the plate. 4. Do not reuse pipette tips and tubes to avoid
	cross contamination. 5. Do not use the expired components and the components from differen
	batches. 6. To avoid the marginal effect of plate incubation for temperature differences (the
	marginal wells always get stronger reaction), it is recommend to equilibrate the ABC working
	solution and TMB substrate for at least 30 min at room temperature (37°C ) before adding to
	wells.The TMB substrate (Kit Component 8) is colorless and transparent before use, if not,

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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. Serum: Coagulate at room temperature for 10-20 °C min, then, centrifuge at the speed of 2000-3000 r.p.m. for 20 min to collect supernatant. If precipitation appeared, centrifuge again. Plasma: Collect plasma using EDTA or citrate plasma as an anticoagulant, and mix for 10-20 °C min, centrifuge at the speed of 2000-3000 r.p.m. for 20 min of collection. If precipitation appeared, centrifuge again. Urine: Collect urine using a sterile container, centrifuge at the speed of 2000-3000 r.p.m. for 20 min to collect supernatant. If precipitation appeared, centrifuge again. For collection of hydrothorax and cerebrospinal fluid, take reference to this operation. Cell culture supernatant: For secretory components: use a sterile container to collect. Centrifuge at the speed of 2000-3000 r.p.m. for 20 min to collect supernatant. For intracellular components: Dilute cell suspension with PBS(pH7.2-7.4) to make the cell concentration reached 1 million / ml. Damage cells and release of intracellular components through repeated freeze-thaw cycles. Centrifuge at the speed of 2000-3000 r.p.m. For 20 min to collect supernatant. If precipitation appeared, centrifuge again. Tissue samples: Cut samples and weight, add certain volume of PBS (pH7.4), rapidly frozen with liquid nitrogen. After melting, store samples at 2-8 °C . Add certain volume of PBS (pH7.4), homogenize thoroughly, centrifuge at the speed of 2000-3000 r.p.m. for 20 min to collect supernatant. Note: 1. Coagulate blood samples completely, then, centrifuge, and avoid hemolysis and particle. 2. NaN 3 cannot be used as test sample preservative, since it is the inhibitor for HRP. 3. After collecting samples, analyze immediately or aliquot and store frozen at -20 °C. Avoid repeated freeze-thaw cycles. 2. Wash buffer Dilute concentrated Wash buffer (Kit Component 4) 30-fold (1:30) with distilled water (i.e. add 20 ml of concentrated wash buffer into 580 ml of distilled water). 3. Standard Reconstitution of the Lyophilized Human VEGFR3 standard (Kit Component 2): standard solution should be prepared no more than 2 hours prior to the experiment. Two tubes of standard are included in each kit. Use one tube for each experiment. (Note: Do not dilute the standard directly in the plate) a. 800pg/ml of standard solution: Add 0.5 ml of the 800pg/ml Standard (Kit Component 2) into 0.125ml Standard diluent buffer (Kit Component 3) and mix thoroughly. b. 400 pg/ml -> 50 pg/ml of standard solutions: Label 4 Eppendorf tubes with 400pg/ml, 200 pg/ml, 100pg/ml, 50 pg/ml, respectively. Aliquot 0.2 ml of the Standard diluent buffer (Kit Component 3) into each tube. Add 0.2 ml of the above 800 pg/ml standard solution into 1st tube and mix thoroughly. Transfer 0.2 ml from 1st tube to 2nd tube and mix thoroughly. Transfer 0.2 ml from 2nd tube to 3rd tube and mix thoroughly,

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## Application Details

	and so on. Chongqing Biospes Co., Ltd Product Manual
Restrictions:	For Research Use only
Handling	
Preservative:	Sodium azide, Thimerosal (Merthiolate)

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