

## Datasheet for ABIN5659888 **VEGFR2/CD309 ELISA Kit**



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### Overview

Quantity:	96 tests
Target:	VEGFR2/CD309 (VEGFR2)
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	62.5 pg/mL - 4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

### Product Details

Sample Type:	Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Vascular Endothelial Growth Factor Receptor 2 (VEGFR2). No significant cross-reactivity or interference between Vascular Endothelial Growth Factor Receptor 2 (VEGFR2) and analogues was observed.
Sensitivity:	24.7 pg/mL

### Target Details

Target:	VEGFR2/CD309 (VEGFR2)
Alternative Name:	Vascular Endothelial Growth Factor Receptor 2 ( <a href="#">VEGFR2 Products</a> )

## Target Details

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Background:	Gene Name: Vascular Endothelial Growth Factor Receptor 2 Gene Aliases: CD309, FLK1, VEGFR, KDR, A Type III Receptor Tyrosine Kinase, Kinase Insert Domain Receptor, Kinase Insert Domain Receptor, Fetal Liver Kinase-1
Gene ID:	25589
UniProt:	<a href="#">O08775</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Glycosaminoglycan Metabolic Process</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a> , <a href="#">Growth Factor Binding</a> , <a href="#">Regulation of long-term Neuronal Synaptic Plasticity</a> , <a href="#">VEGF Signaling</a>

## Application Details

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Comment:	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.
Assay Time:	3 h
Plate:	Pre-coated
Protocol:	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 Vascular Endothelial Growth Factor Receptor 2 (VEGFR2). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Vascular Endothelial Growth Factor Receptor 2 (VEGFR2). 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 Vascular Endothelial Growth Factor Receptor 2 (VEGFR2), 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 $\pm$ 10nm. The concentration of Vascular Endothelial Growth Factor Receptor 2 (VEGFR2) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Vascular Endothelial Growth Factor Receptor 2 (VEGFR2) were tested 20 times on one plate, respectively  Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level

## Application Details

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Vascular Endothelial Growth Factor Receptor 2 (VEGFR2) were tested on 3 different plates, 8 replicates in each plate.  $CV(\%) = SD/mean \times 100$

Intra-Assay:  $CV < 10\%$

Inter-Assay:  $CV < 12\%$

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Restrictions: For Research Use only

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## Handling

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Handling Advice: The Stop Solution is acidic. Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.

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Storage: 4 °C, -20 °C

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Storage Comment: -20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at 4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant pack. Minimize freeze/thaw cycles.

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Expiry Date: 4-8 months

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