Datasheet for ABIN1672861

PROCR ELISA Kit

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Overview

Quantity:	96 tests
Target:	PROCR
Binding Specificity:	AA 18-210
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	312-20000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of activated Human EPCR
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: S18-S210
Specificity:	Expression system for standard: NSO Immunogen sequence: S18-S210
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Target:	PROCR
Alternative Name:	PROCR (PROCR Products)
Background:	Protein Function: Binds activated protein C. Enhances protein C activation by the thrombin-thrombomodulin complex, plays a role in the protein C pathway controlling blood coagulation. Background: Endothelial protein C receptor(EPCR) also known as CCCA or PROCR is a protein that in humans is encoded by the PROCR gene. PRPCR gene is mapped to 20q11.2 by radiation hybrid analysis and FISH. The protein encoded by this gene is a receptor for activated protein C, a serine protease activated by and involved in the blood coagulation pathway. The encoded protein is an N-glycosylated type I membrane protein that enhances the activation of protein C. Mutations in this gene have been associated with venous thromboembolism and myocardial infarction, as well as with late fetal loss during pregnancy. Synonyms: Endothelial protein C receptor,Activated protein C receptor,APC receptor,Endothelial cell protein C receptor,CD201,PROCR,EPCR, Full Gene Name: Endothelial protein C receptor Cellular Localisation: Membrane, Single-pass type I membrane protein.
Gene ID:	10544
UniProt:	Q9UNN8

Application Details

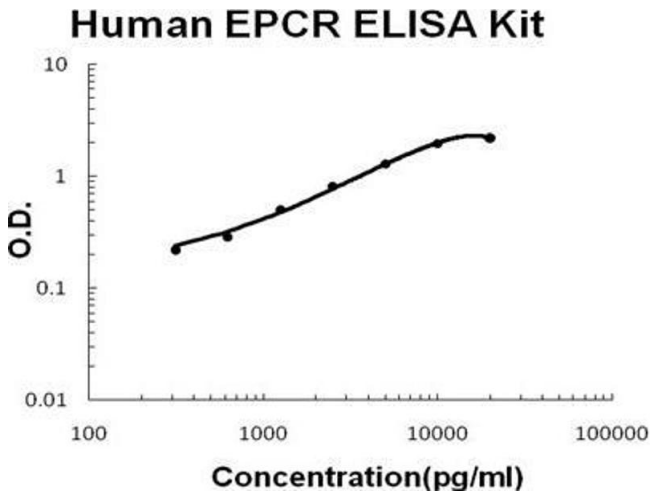
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Expressed strongly in the endothelial cells of arteries and veins in heart and lung, less intensely in capillaries in the lung and skin, and not at all in the endothelium of small vessels of the liver and kidney.
Plate:	Pre-coated

Application Details

Protocol:	human EPCR ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for EPCR has been precoated onto 96-well plates. Standards(NSO, S18-S210) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for EPCR is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was 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 human EPCR amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 20000pg/mL, 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL human EPCR standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human EPCR standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(ng/ml): 2.21, Standard deviation: 0.095, CV(%): 4.3 • Sample 2: n=16, Mean(ng/ml): 8.45, Standard deviation: 0.313, CV(%): 3.7 • Sample 3: n=16, Mean(ng/ml): 14.4, Standard deviation: 0.691, CV(%): 4.8, • Sample 1: n=24, Mean(ng/ml): 2.13, Standard deviation: 0.124, CV(%): 5.8 • Sample 2: n=24, Mean(ng/ml): 8.79, Standard deviation: 0.466, CV(%): 5.3 • Sample 3: n=24, Mean(ng/ml): 13.7, Standard deviation: 1.04, CV(%): 7.6
Restrictions:	For Research Use only

Handling

Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

Image 1. Human EPCR PicoKine ELISA Kit standard curve

