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Datasheet for ABIN921080
Prokineticin 1 ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	Prokineticin 1 (Prok1)
Binding Specificity:	AA 20-105
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human EG-VEGF
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: A20-F105
Specificity:	Expression system for standard: NSO Immunogen sequence: A20-F105
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity: <7pg/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: Prokineticin 1 (Prok1)

Alternative Name: PROK1 ([Prok1 Products](#))

Background: Protein Function: Potently contracts gastrointestinal (GI) smooth muscle. Induces proliferation, migration and fenestration (the formation of membrane discontinuities) in capillary endothelial cells derived from endocrine glands. Has little or no effect on a variety of other endothelial and non-endothelial cell types. Induces proliferation and differentiation, but not migration, of enteric neural crest cells. Directly influences neuroblastoma progression by promoting the proliferation and migration of neuroblastoma cells. Positively regulates PTGS2 expression and prostaglandin synthesis. May play a role in placentation. May play a role in normal and pathological testis angiogenesis. .

Background: EG-VEGF, Endocrine glandderived vascular endothelial growth factor, is a human protein encoded by by the PROKR1 gene. Its gene is mapped to chromosome 1. The 1.4-kb cDNA encodes a protein of 105 amino acids with a well defined signal sequence. The mature protein is predicted to have 86 amino acids. Northern blot analysis demonstrated expression in testis, ovary, adrenal gland, and placenta. EG-VEGF has played a vital role in inducing proliferation, migration, and fenestration in capillary endothelial cells derived from endocrine glands. The standards of this kit are recombinant human EG-VEGF(A20-F105), with molecular weight of 10.5 KDa.

Synonyms: Prokineticin-1,Endocrine-gland-derived vascular endothelial growth factor,EG-VEGF,Mambakine,PROK1,UNQ600/PRO1186,

Full Gene Name: Prokineticin-1

Cellular Localisation: Secreted.

Gene ID: 84432

UniProt: [P58294](#)

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: Localizes to glandular epithelium, stroma and vascular epithelial cells of first trimester decidua (at protein level). Up-regulated in first trimester decidua when compared with non-pregnant endometrium. Expressed in the steroidogenic glands, ovary, testis, adrenal and placenta. .
Plate:	Pre-coated
Protocol:	human EG-VEGF ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for EG-VEGF has been precoated onto 96-well plates. Standards(NSO, A20-F105) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for EG-VEGF 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 EG-VEGF amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL human EG-VEGF 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 EG-VEGF standard solution and each sample be measured in duplicate.

Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 108, Standard deviation: 5.94, CV(%): 5.5• Sample 2: n=16, Mean(pg/ml): 228, Standard deviation: 10.26, CV(%): 4.5• Sample 3: n=16, Mean(pg/ml): 507, Standard deviation: 21.8, CV(%):4.3,• Sample 1: n=24, Mean(pg/ml): 98, Standard deviation: 5.59, CV(%): 5.7• Sample 2: n=24, Mean(pg/ml): 239, Standard deviation: 17.69, CV(%): 7.4• Sample 3: n=24, Mean(pg/ml): 512, Standard deviation: 34.82, CV(%): 6.8
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Restrictions:	For Research Use only
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Handling

Handling Advice:	Avoid multiple freeze-thaw cycles.
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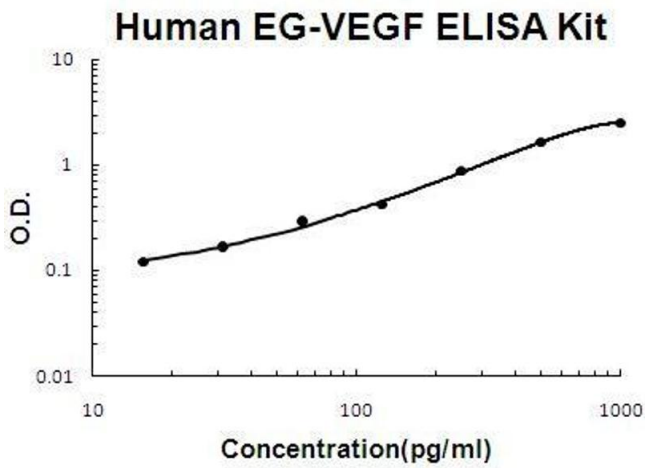
Storage:	-20 °C,4 °C
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Handling

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

Expiry Date: 12 months

Images



ELISA

Image 1. Human EG-VEGF PicoKine ELISA Kit standard curve