

Datasheet for ABIN1672838
SCGB1A1 ELISA Kit[Go to Product page](#)

1 Image

Overview

Quantity:	96 tests
Target:	SCGB1A1
Binding Specificity:	AA 22-91
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human SCGB1A1/uteroglobin
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Saliva, Urine, Milk
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: E22-N91
Specificity:	Expression system for standard: E.coli Immunogen sequence: E22-N91
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:	SCGB1A1
Alternative Name:	SCGB1A1 (SCGB1A1 Products)
Background:	<p>Protein Function: Binds phosphatidylcholine, phosphatidylinositol, polychlorinated biphenyls (PCB) and weakly progesterone, potent inhibitor of phospholipase A2.</p> <p>Background: SCGB1A1(secretoglobin family 1A member 1) also known as Uteroglobin is a protein that in humans is encoded by the SCGB1A1 gene. SCGB1A1 is the founding member of the secretoglobin family of small, secreted, disulfide-bridged dimeric proteins found only in mammals. This protein is specifically expressed in Clara cells in the lungs. Numerous studies demonstrated that UG is a multifunctional protein with antiinflammatory/ immunomodulatory properties. It inhibits soluble phospholipase A(2) activity and binds and perhaps sequesters hydrophobic ligands such as progesterone, retinols, polychlorinated biphenyls, phospholipids, and prostaglandins. In addition to its antiinflammatory activities, UG manifests antichemotactic, antiallergic, antitumorigenic, and embryonic growth-stimulatory activities.</p> <p>Synonyms: Uteroglobin,Clara cell phospholipid-binding protein,CCPBP,Clara cells 10 kDa secretory protein,CC10,Secretoglobin family 1A member 1,Urinary protein 1,UP-1,UP1,Urine protein 1,SCGB1A1,CC10, CCSP, UGB,</p> <p>Full Gene Name: Uteroglobin</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	7356
UniProt:	P11684

Application Details

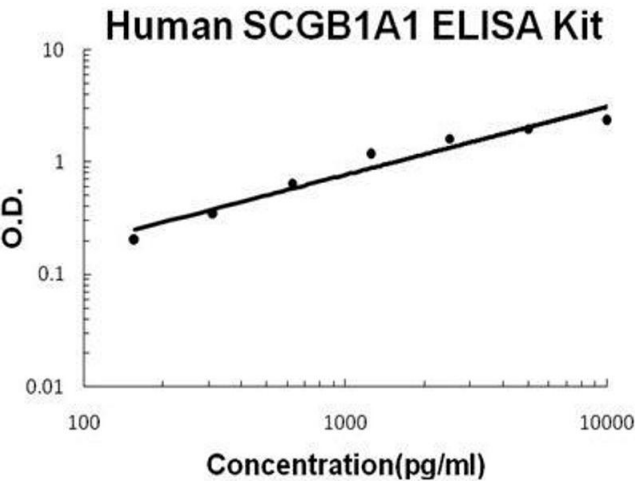
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Clara cells (nonciliated cells of the surface epithelium of the pulmonary airways).

Application Details

Plate:	Pre-coated
Protocol:	human SCGB1A1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for SCGB1A1 has been precoated onto 96-well plates. Standards(E.coli, E22-N91) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for SCGB1A1 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 SCGB1A1 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human SCGB1A1 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, plasma(heparin, EDTA), saliva, urine or human milk to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human SCGB1A1 standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(ng/ml): 1.2, Standard deviation: 0.071, CV(%): 5.9• Sample 2: n=16, Mean(ng/ml): 2.3, Standard deviation: 0.085, CV(%): 3.7• Sample 3: n=16, Mean(ng/ml): 5.2, Standard deviation: 0.276, CV(%): 5.3• Sample 1: n=24, Mean(ng/ml): 1.6, Standard deviation: 0.101, CV(%): 6.3• Sample 2: n=24, Mean(ng/ml): 2.8, Standard deviation: 0.154, CV(%): 5.5• Sample 3: n=24, Mean(ng/ml): 6.1, Standard deviation: 0.464, 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 SCGB1A1/uteroglobin PicoKine ELISA Kit standard curve