Datasheet for ABIN411366

PLAUR ELISA Kit

1 Image

Go to Product page

Overview

Quantity:	96 tests
Target:	PLAUR
Binding Specificity:	AA 23-303
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human uPAR
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: L23-R303
Specificity:	Expression system for standard: NSO,L23-R303
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<4pg/mL

Product Details

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:	PLAUR
Alternative Name:	PLAUR (PLAUR Products)
Background:	Protein Function: Acts as a receptor for urokinase plasminogen activator. Plays a role in localizing and promoting plasmin formation. Mediates the proteolysis-independent signal transduction activation effects of U-PA. It is subject to negative-feedback regulation by U-PA which cleaves it into an inactive form. Background: The urokinase-type plasminogen activator receptor(uPAR) is a key molecule in the regulation of cell-surface plasminogen activation and, as such, plays an important role in many normal as well as pathological processes. The cDNA for Mo3, an activation antigen expressed by human monocytes and myelomonocytic cell lines after stimulation by a variety of agents. Mo3 expression in vivo is associated predominantly with macrophages in inflammatory sites. It is a highly glycosylated protein of about 50 kD in monocytes where it is anchored to the plasma membrane by glycosyl-phosphatidylinositol linkage. The complete coding sequence of the cDNA has been found to encode 335 amino acids including a predicted signal peptide of 22 residues and a hydrophobic C-terminal portion. Mo3 is identical to the human receptor for the urokinase plasminogen activator. UPAR is a useful prognostic marker for biologically aggressive forms of endometrial cancer. PLAUR is located at chromosome 19q13.1-q13.2. The standard product used in this kit is recombinant human uPAR, consisting of 287 amino acids with the molecular mass of 31KDa. Synonyms: Urokinase plasminogen activator surface receptor,U-PAR,uPAR,Monocyte activation antigen Mo3,CD87,PLAUR,MO3, UPAR, Full Gene Name: Urokinase plasminogen activator surface receptor Cellular Localisation: Cell membrane . Cell projection, invadopodium membrane . Colocalized with FAP (seprase) preferentially at the cell surface of invadopodia membrane in a cytoskeleton-, integrin- and vitronectin-dependent manner..
Gene ID:	5329
UniProt:	Q03405
Pathways:	Inositol Metabolic Process

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:	Sequence similarities: Contains 3 UPAR/Ly6 domains. Tissue Specificity: Expressed in neurons of the rolandic area of the brain (at protein level). Expressed in the brain.
Plate:	Pre-coated
Protocol:	human uPAR ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for uPAR has been precoated onto 96-well plates. Standards (NSO,L23-R303) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for uPAR 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 uPAR amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human uPAR 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) or urine to each empty well. See "Sample Dilution Guideline" above for details. We recommend that each human uPAR standard solution and each sample is measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 240, Standard deviation: 8.16, CV(%): 3.4 • Sample 2: n=16, Mean(pg/ml): 1437, Standard deviation: 73.3, CV(%): 5.1 • Sample 3: n=16, Mean(pg/ml): 2682, Standard deviation: 120.7, CV(%): 4.5, • Sample 1: n=24, Mean(pg/ml): 365, Standard deviation: 17.52, CV(%): 4.8 • Sample 2: n=24, Mean(pg/ml): 1624, Standard deviation: 105.6, CV(%): 6.5 • Sample 3: n=24, Mean(pg/ml): 3163, Standard deviation: 186.6, CV(%): 5.9
Restrictions:	For Research Use only

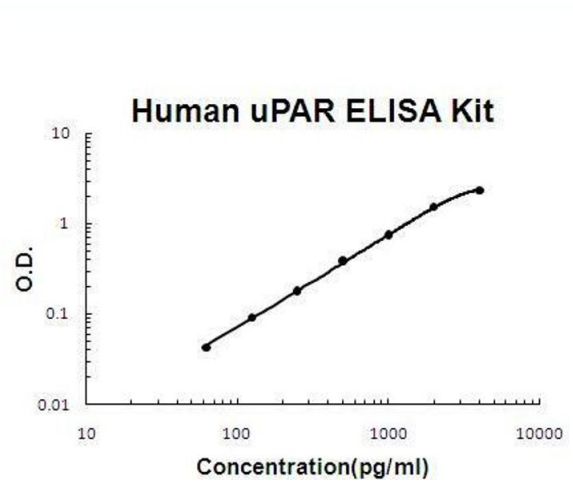
Handling

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

Handling

Expiry Date:	12 months

Images



ELISA

Image 1. Human uPAR PicoKine ELISA Kit standard curve