

Datasheet for ABIN1889424
IL18BP ELISA Kit[Go to Product page](#)

1 Image

Overview

Quantity:	96 tests
Target:	IL18BP
Binding Specificity:	AA 31-194
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	93.7-6000 pg/mL
Minimum Detection Limit:	93.7 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human IL-18BP
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: T31-G194
Specificity:	Expression system for standard: NSO Immunogen sequence: T31-G194
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:	IL18BP
Alternative Name:	IL18BP (IL18BP Products)
Background:	<p>Protein Function: Isoform A binds to IL-18 and inhibits its activity. Functions as an inhibitor of the early TH1 cytokine response. .</p> <p>Background: Interleukin-18-binding protein, also known as IL18BP_a, is a protein that in humans is encoded by the IL18BP gene. It is mapped to 11q13.4. The protein encoded by this gene is an inhibitor of the proinflammatory cytokine IL18. This protein binds to IL18, prevents the binding of IL18 to its receptor, and thus inhibits IL18-induced IFN-gamma production. This protein is constitutively expressed and secreted in mononuclear cells. The expression of this protein can be enhanced by IFN-gamma. It has been found that IL18BP expression in intestinal tissue is increased in endothelial cells as well as cells of the submucosa and overlying lymphoid aggregates in Crohn disease.</p> <p>Synonyms: Interleukin-18-binding protein,IL-18BP,Tadekinig-alfa,IL18BP,</p> <p>Full Gene Name: Interleukin-18-binding protein</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	10068
UniProt:	O95998

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:	<p>Sequence similarities: Contains 1 Ig-like C2-type (immunoglobulin-like) domain.</p> <p>Tissue Specificity: Strongly expressed in heart, lung, placenta and spleen. .</p>
Plate:	Pre-coated
Protocol:	human IL-18BP ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent

Application Details

assay technology. A monoclonal antibody from mouse specific for IL-18BP has been precoated onto 96-well plates. Standards(NSO, T31-G194) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL-18BP 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 IL-18BP amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 6000pg/mL, 3000pg/mL, 1500pg/mL, 750pg/mL, 375pg/mL, 187.5pg/mL, 93.7pg/mL human IL-18BP 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. It is recommended that each human IL-18BP standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 1289, Standard deviation: 61.9, CV(%): 4.8
- Sample 2: n=16, Mean(pg/ml): 3561, Standard deviation: 203, CV(%): 5.7
- Sample 3: n=16, Mean(pg/ml): 5320, Standard deviation: 228.76, CV(%): 4.3,
- Sample 1: n=24, Mean(pg/ml): 999, Standard deviation: 51.95, CV(%): 5.2
- Sample 2: n=24, Mean(pg/ml): 2895, Standard deviation: 189, CV(%): 6.5
- Sample 3: n=24, Mean(pg/ml): 4672, Standard deviation: 262, CV(%): 5.6

Restrictions: For Research Use only

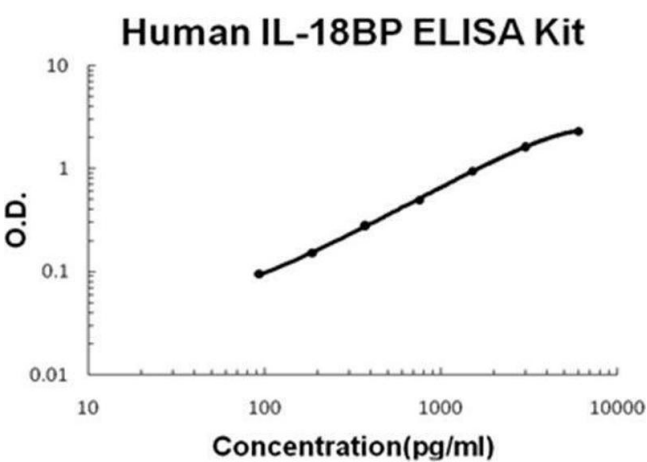
Handling

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 IL-18BP PicoKine ELISA Kit standard curve