

Datasheet for ABIN1672866 IGFBP6 ELISA Kit

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1 Image

Overview

Quantity:	96 tests
Target:	IGFBP6
Binding Specificity:	AA 25-240
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 IGFBP6
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: A25-G240
Specificity:	Expression system for standard: NSO Immunogen sequence: A25-G240
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: IGFBP6

Alternative Name: IGFBP6 ([IGFBP6 Products](#))

Background: Protein Function: IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors.

Background: Insulin-like growth factor-binding protein 6(IGFBP6) is a protein that in humans is encoded by the IGFBP6 gene. The IGFBP6 gene is mapped to chromosome 12. In all, it has contained 216 amino acid protein with a calculated molecular mass of 22,847, The human keratinocyte cell line HaCat secretes IGFBP6 as an autocrine growth inhibitor. Recombinant IGFBP6 was also shown to inhibit growth of HaCat cells and other keratinocyte cell lines.

Synonyms: Insulin-like growth factor-binding protein 6,IBP-6,IGF-binding protein 6,IGFBP-6,IGFBP6,IBP6,

Full Gene Name: Insulin-like growth factor-binding protein 6

Cellular Localisation: Secreted.

Gene ID: 3489

UniProt: [P24592](#)

Pathways: [WNT Signaling](#), [Myometrial Relaxation and Contraction](#)

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 1 IGFBP N-terminal domain.

Plate: Pre-coated

Protocol: human IGFBP6 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IGFBP6 has been precoated

Application Details

onto 96-well plates. Standards(NSO, A25-G240) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IGFBP6 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 IGFBP6 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 IGFBP6 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 IGFBP6 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 551, Standard deviation: 21.5, CV(%): 3.9
- Sample 2: n=16, Mean(pg/ml): 1557, Standard deviation: 63.84, CV(%): 4.1
- Sample 3: n=16, Mean(pg/ml): 2736, Standard deviation: 128.6, CV(%): 4.7,
- Sample 1: n=24, Mean(pg/ml): 489, Standard deviation: 27.87, CV(%): 5.7
- Sample 2: n=24, Mean(pg/ml): 1635, Standard deviation: 101.37, CV(%): 6.2
- Sample 3: n=24, Mean(pg/ml): 2878, Standard deviation: 184.2, CV(%): 6.4

Restrictions: For Research Use only

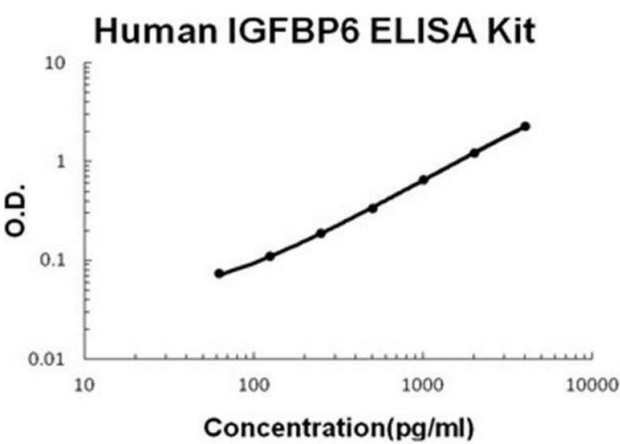
Handling

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 IGFBP6 PicoKine ELISA Kit standard curve