

## Datasheet for ABIN1889294 IGFBP2 ELISA Kit



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### 1 Image

#### Overview

Quantity:	96 tests
Target:	IGFBP2
Binding Specificity:	AA 40-328
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 IGFBP2
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: E40-Q328
Specificity:	Expression system for standard: NSO Immunogen sequence: E40-Q328
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:	IGFBP2
Alternative Name:	IGFBP2 ( <a href="#">IGFBP2 Products</a> )
Background:	<p>Protein Function: Inhibits IGF-mediated growth and developmental rates. 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. .</p> <p>Background: Insulin-like growth factor-binding protein 2(IGFBP2), also called IBP2, is a protein that in humans is encoded by the IGFBP2 gene. It is mapped to 2q35. By structural analysis, it showed that the IGFBP2 gene consists of 4 exons with 3 introns of lengths 27.0, 1.0, and 1.9 kb. IGFBP2 secreted by metastatic cells recruits endothelia by modulating IGF1 mediated activation of the IGF type-I receptor on endothelial cells. The IGFBP2/IGF1/IGF1R and GAS6/MERTK signaling pathways are regulators of cancer-mediated endothelial recruitment. Synonyms: Insulin-like growth factor-binding protein 2,IBP-2,IGF-binding protein 2,IGFBP-2,IGFBP2,BP2, IBP2, Full Gene Name: Insulin-like growth factor-binding protein 2 Cellular Localisation: Secreted.</p>
Gene ID:	3485
UniProt:	<a href="#">P18065</a>
Pathways:	<a href="#">Myometrial Relaxation and Contraction</a> , <a href="#">Growth Factor Binding</a> , <a href="#">Activated T Cell Proliferation</a>

## 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

## Application Details

**Protocol:** human IGFBP2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IGFBP2 has been precoated onto 96-well plates. Standards(NSO, E40-Q328) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IGFBP2 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 IGFBP2 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 IGFBP2 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 or EDTA) or urine to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human IGFBP2 standard solution and each sample be measured in duplicate.

**Assay Precision:**

- Sample 1: n=16, Mean(pg/ml): 608, Standard deviation: 27.97, CV(%): 4.6
- Sample 2: n=16, Mean(pg/ml): 1555, Standard deviation: 80.86, CV(%): 5.2
- Sample 3: n=16, Mean(pg/ml): 2836, Standard deviation: 167.3, CV(%): 5.9,
- Sample 1: n=24, Mean(pg/ml): 715, Standard deviation: 44.33, CV(%): 6.2
- Sample 2: n=24, Mean(pg/ml): 1938, Standard deviation: 133.7, CV(%): 6.9
- Sample 3: n=24, Mean(pg/ml): 3147, Standard deviation: 229.7, CV(%): 7.3

**Restrictions:** For Research Use only

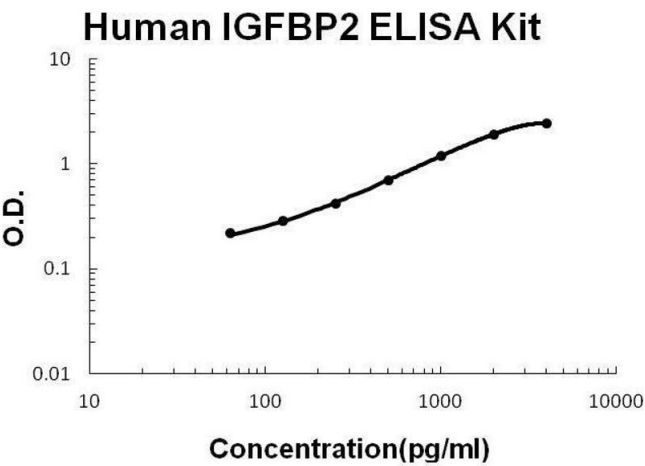
## Handling

**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 IGFBP2 PicoKine ELISA Kit standard curve