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# **IGFBP3 ELISA Kit**

1 Image

2

**Publications** 



Go to Product page

### Overview

Quantity:	96 tests
Target:	IGFBP3
Binding Specificity:	AA 28-291
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

# **Product Details**

man IGFBP-3

#### **Product Details**

Pathways:

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:	IGFBP3
Alternative Name:	IGFBP3 (IGFBP3 Products)
Background:	Background: Insulin-like growth factor(IGF)-binding protein-3(IGFBP-3) is a major determinant of circulating levels of the IGFs and is clinically useful for the evaluation of GH deficiency and for predicting the response to GH treatment. The circulating level of IGFBP-3 is inversely related to the risk of several common cancers, and that antiproliferative agents such as antiestrogens and retinoids act in part by up-regulating IGFBP-3 gene(IGFBP3) expression. Insulin-like growth factor-binding protein(IGFBP)-3, well characterized as the carrier of insulin-like growth factor(IGF), has been reported to have intrinsic bioactivity that is independent of IGF binding. IGFBP-3 has an IGF-independent, antiproliferative effect in undifferentiated and early differentiated but not in terminally differentiated chondrocytes. IGFBP-3 possesses both growth-inhibitory and potentiating effects on cells that are independent of IGF action and are mediated through specific. IGFBP-3 binding proteins/receptors locate at the cell membrane, cytosol, or nuclear compartments and in the extrIGFBP-3Ilular matrix. IGFBP3 is also located or chromosome 7. The standard product used in this kit is recombinant human IGFBP-3, consisting of 265 amino acids with the molecular mass of 29 kDa. As a result of glycosylation, the molecular mass is 41KDa.  Synonyms: cDNA FLJ31712 fis, clone NT2RI2006445, highly similar to Insulin-like growth factor-binding protein 3 ,cDNA FLJ38550 fis, clone HCHON1000191, highly similar to Insulin-like growth factor-binding protein 3 ,cDNA PSEC0177 fis, clone OVARC1000287, highly similar to Insulin-like growth factor-binding protein 3 ,cDNA PSEC0177 fis, clone OVARC1000287, highly similar to Insulin-like growth factor-binding protein 3 ,cDNA PSEC0177 fis, clone OVARC1000287, highly similar to Insulin-like growth factor-binding protein 3 ,cDNA PSEC0177 fis, clone OVARC1000287,
	3486
Gene ID:	3400

Myometrial Relaxation and Contraction, Regulation of Muscle Cell Differentiation, Skeletal

Muscle Fiber Development, Regulation of Carbohydrate Metabolic Process, Autophagy, Smooth Muscle Cell Migration, Growth Factor Binding

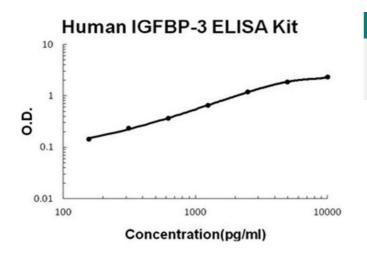
# **Application Details**

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.
Plate:	Pre-coated
Protocol:	human IGFBP-3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from mouse specific for IGFBP-3 has been precoated
	onto 96-well plates. Standards(NSO, A28Q-291) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for IGFBP-3 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 IGFBP-3 amount of sample captured in plate.
	yellow is proportional to the namarifor bit is 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,
	313pg/mL, 156pg/mL human IGFBP-3 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 IGFBP-3 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(ng/ml): 1.12, Standard deviation: 0.058, CV(%): 5.2
	<ul> <li>Sample 2: n=16, Mean(ng/ml): 3.41, Standard deviation: 0.198, CV(%): 5.8</li> </ul>
	• Sample 3: n=16, Mean(ng/ml): 5.23, Standard deviation: 0.241, CV(%): 4.6,
	<ul> <li>Sample 1: n=24, Mean(ng/ml): 1.24, Standard deviation: 0.077, CV(%): 6.2</li> <li>Sample 2: n=24, Mean(ng/ml): 3.26, Standard deviation: 0.231, CV(%): 7.1</li> </ul>
	<ul> <li>Sample 2: n=24, Mean(ng/ml): 5.26, Standard deviation: 0.231, CV(%): 7.1</li> <li>Sample 3: n=24, Mean(ng/ml): 6.34, Standard deviation: 0.552, CV(%): 8.7</li> </ul>
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Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C

# Handling

Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months
Publications	
Product cited in:	Wang, Lee, Chou, Yang, Wei, Chen, Yao, Hsu, Zhu, Ying, Ye, Wang, Lim, Xia, Ko, Liu, Liu, Wu,
	Wang, Li, Prakash, Katz, Kang, Kim, Fleming, Fogelman, Javle, Maitra, Hung: "
	Angiogenin/Ribonuclease 5 Is an EGFR Ligand and a Serum Biomarker for Erlotinib Sensitivity

# **Images**



## **ELISA**

in Pancreatic Cancer." in: Cancer cell, Vol. 33, Issue 4, pp. 752-769.e8, (2019) (PubMed).

Image 1. Human IGFBP-3 PicoKine ELISA Kit standard curve