

Datasheet for ABIN6719869

**IGFBP3 ELISA Kit**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 kit
Target:	IGFBP3
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: Acid stable subunit of the 140 K IGF complex, Binding protein 29, Binding protein 53, BP 53, BP53, Growth hormone dependent binding protein, IBP 3, IBP3, IGF binding protein 3, IGFBP 3, Insulin Like Growth Factor Binding Protein 3</p> <p>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</p>

## Product Details

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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 extracellular matrix. IGFBP3 is also located on chromosome 7. The standard product used in this kit is recombinant mouse IGFBP-3, consisting of 270 amino acids with the molecular mass of 29.4 kDa. As a result of glycosylation, the molecular mass is 40-50kDa.

Gene Name: IGFBP3

Production: Natural and recombinant mouse IGFBP-3. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: G28Q-K291

## Target Details

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Target:	IGFBP3
Alternative Name:	<a href="#">IGFBP-3 (IGFBP3 Products)</a>
Gene ID:	3486
NCBI Accession:	<a href="#">NP_000589</a>
UniProt:	<a href="#">B3KPF0</a>
Pathways:	<a href="#">Myometrial Relaxation and Contraction</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a> , <a href="#">Autophagy</a> , <a href="#">Smooth Muscle Cell Migration</a> , <a href="#">Growth Factor Binding</a>

## Application Details

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Application Notes:	Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 313pg/mL, 156pg/mL mouse 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 mouse cell culture supernates or serum to each empty well. It is recommended that each mouse IGFBP-3 standard solution and each sample be measured in duplicate.
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## Application Details

ELISA Dilution: 156pg/mL-10000pg/mL

Sample Volume: 100  $\mu$ L

Plate: Pre-coated

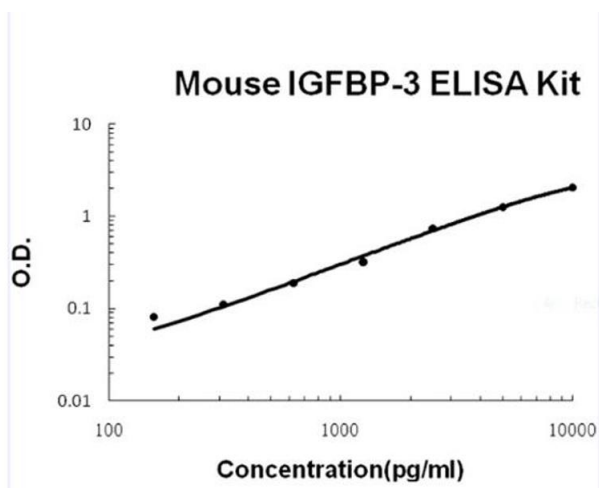
Restrictions: For Research Use only

## Handling

Storage: RT,4 °C,-20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

## Images



### ELISA

**Image 1.** Mouse IGFBP-3 Accusignal ELISA Kit Mouse IGFBP-3 AccuSignal ELISA Kit standard curve. Assay Range: 156pg/ml-10000pg/ml. Sensitivity: <10pg/ml