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Datasheet for ABIN1889356 IGFBP5 ELISA Kit

Image



Overview

| Quantity: | 96 tests |
|--------------------------|------------------|
| Target: | IGFBP5 |
| Binding Specificity: | AA 20-271 |
| Reactivity: | Mouse |
| Method Type: | Sandwich ELISA |
| Detection Range: | 156-10.000 pg/mL |
| Minimum Detection Limit: | 156 pg/mL |
| Application: | ELISA |

Product Details

| Purpose: | Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse IGFBP5 |
|-----------------------------|--|
| 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: L20-E271 |
| Specificity: | Expression system for standard: NSO Immunogen sequence: L20-E271 |
| Cross-Reactivity (Details): | There is no detectable cross-reactivity with other relevant proteins. |
| | |

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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

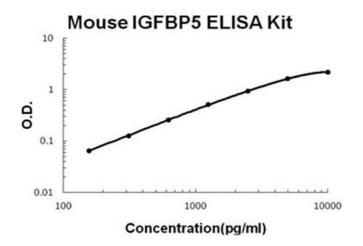
| Target: | IGFBP5 |
|---------------------|--|
| Alternative Name: | IGFBP5 (IGFBP5 Products) |
| Background: | Protein Function: IGF-binding proteins prolong the half-life of the IGFs and have been shown to |
| | either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the |
| | interaction of IGFs with their cell surface receptors. |
| | Background: Insulin-like growth factor-binding protein 5 is a protein that in humans is encoded |
| | by the IGFBP5 gene. The IGFBP5 gene was mapped to chromosome 2q33-q34. The expression |
| | of IGFBP5 by stable transfection and adenovirus-mediated infection was inhibitory to growth in |
| | 2 human breast cancer cell lines. Stable expression of IGFBP5 in the breast cancer cell lines |
| | also inhibited the formation and growth of tumors following injection in athymic mice. IGFBP5 |
| | is believed a growth inhibitor and proapoptotic agent in breast cancer cells. |
| | Synonyms: Insulin-like growth factor-binding protein 5,IBP-5,IGF-binding protein 5,IGFBP- |
| | 5,Igfbp5,Igfbp-5, |
| | Full Gene Name: Insulin-like growth factor-binding protein 5 |
| | Cellular Localisation: Secreted. |
| Gene ID: | 16011 |
| UniProt: | Q07079 |
| Pathways: | WNT Signaling, Carbohydrate Homeostasis, Myometrial Relaxation and Contraction, Regulatior |
| | 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. |
| Comment: | Sequence similarities: Contains 1 IGFBP N-terminal domain. |

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Application Details

| | Tissue Specificity: Most abundant in kidney, uterus and gastrocnemius muscle. |
|------------------|--|
| Plate: | Pre-coated |
| Protocol: | mouse IGFBP5 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent |
| | assay technology. A monoclonal antibody from rat specific for IGFBP5 has been precoated |
| | onto 96-well plates. Standards(NSO, L20-E271) and test samples are added to the wells, a |
| | biotinylated detection polyclonal antibody from goat specific for IGFBP5 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 mouse IGFBP5 amount of sample captured in plate. |
| Assay Procedure: | Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, |
| | 312pg/mL, 156pg/mL mouse IGFBP5 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, serum or plasma(heparin, EDTA) to |
| | each empty well. See "Sample Dilution Guideline" above for details. It is recommended that |
| | each mouse IGFBP5 standard solution and each sample be measured in duplicate. |
| Assay Precision: | Sample 1: n=16, Mean(ng/ml): 1.1, Standard deviation: 0.045, CV(%): 4.1 |
| | Sample 2: n=16, Mean(ng/ml): 3.4, Standard deviation: 0.167, CV(%): 4.9 |
| | Sample 3: n=16, Mean(ng/ml): 6.2, Standard deviation: 0.341, CV(%): 5.5, |
| | Sample 1: n=24, Mean(ng/ml): 1.5, Standard deviation: 0.084, CV(%): 5.6 |
| | Sample 2: n=24, Mean(ng/ml): 3.8, Standard deviation: 0.247, CV(%): 6.5 Sample 3: n=24, Mean(ng/ml): 6.7, Standard deviation: 0.476, CV(%): 7.1 |
| | |
| 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 |

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ELISA

Image 1. Mouse IGFBP5 PicoKine ELISA Kit standard curve

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