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Datasheet for ABIN921053 BMP5 ELISA Kit

Image



Overview

| Quantity: | 96 tests |
|--------------------------|-----------------|
| Target: | BMP5 |
| Binding Specificity: | AA 317-454 |
| Reactivity: | Human |
| Method Type: | Sandwich ELISA |
| Detection Range: | 156-10000 pg/mL |
| Minimum Detection Limit: | 156 pg/mL |
| Application: | ELISA |

Product Details

| Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human BMP-5 |
|---|
| |
| PicoKine™ |
| Cell Culture Supernatant, Serum, Osseous Tissue |
| Quantitative |
| Colorimetric |
| Expression system for standard: NSO Immunogen sequence: A317-H454 |
| Expression system for standard: NSO Immunogen sequence: A317-H454 |
| There is no detectable cross-reactivity with other relevant proteins. |
| |

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| Product De | etails |
|------------|--------|
|------------|--------|

| Predicted Reactivity: | Bovine,Canine,Horse,Monkey,Rabbit |
|------------------------|--|
| 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: | BMP5 |
|---------------------|--|
| Alternative Name: | BMP5 (BMP5 Products) |
| Background: | Protein Function: Induces cartilage and bone formation. |
| | Background: Bone morphogenetic protein 5 is a protein that in humans is encoded by the BMP5 |
| | gene.1,2,3 The protein encoded by this gene is member of the TGFbeta superfamily. Bone |
| | morphogenetic proteins are known for their ability to induce bone and cartilage development. |
| | BMP5 may play a role in certain cancers. Like other BMP's BMP5 is inhibited by chordin and |
| | noggin. It is expressed in the trabecular meshwork and optic nerve head and may have a role in |
| | the development and normal function. It is also expressed in the lung and liver. BMP-5 is |
| | mapped on human chromosome 6.4 The standard used in this kit is recombinant BMP-5 with |
| | the monomer molecular mass of 18KDa. |
| | Synonyms: Bone morphogenetic protein 5,BMP-5,BMP5, |
| | Full Gene Name: Bone morphogenetic protein 5 |
| | Cellular Localisation: Secreted. |
| Gene ID: | 653 |
| UniProt: | P22003 |
| Pathways: | Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process |
| 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. |

Sequence similarities: Belongs to the TGF-beta family.

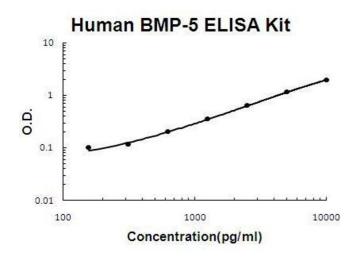
Tissue Specificity: Expressed in the lung and liver.

Plate: Pre-coated

Comment:

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| Protocol: | human BMP-5 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent |
|------------------|---|
| | assay technology. A monoclonal antibody from mouse specific for BMP-5 has been precoated |
| | onto 96-well plates. Standards(NSO, A317-H454) and test samples are added to the wells, a |
| | biotinylated detection polyclonal antibody from goat specific for BMP-5 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 BMP-5 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, |
| | 312pg/mL, 156pg/mL human BMP-5 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 bone tissue to each empty |
| | well. See "Sample Dilution Guideline" above for details. It is recommended that each human |
| | BMP-5 standard solution and each sample be measured in duplicate. |
| Assay Precision: | Sample 1: n=16, Mean(ng/ml): 1.23, Standard deviation: 0.059, CV(%): 4.8 |
| | Sample 2: n=16, Mean(ng/ml): 3.46, Standard deviation: 0.180, CV(%): 5.2 |
| | Sample 3: n=16, Mean(ng/ml): 6.92, Standard deviation: 0.388, CV(%): 5.6, |
| | Sample 1: n=24, Mean(ng/ml): 1.38, Standard deviation: 0.073, CV(%): 5.3 |
| | Sample 2: n=24, Mean(ng/ml): 3.57, Standard deviation: 0.203, CV(%): 5.7 |
| | • Sample 3: n=24, Mean(ng/ml): 6.85, Standard deviation: 0.425, CV(%): 6.2 |
| 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 BMP-5 PicoKine ELISA Kit standard curve

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