



[Go to Product page](#)

Datasheet for ABIN3071450

BMP7 ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	BMP7
Binding Specificity:	AA 292-430
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse BMP-7
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: CHO Immunogen sequence: S292-H430
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Predicted Reactivity:	Hamster
Sensitivity:	<10pg/ml
Characteristics:	Protein Name: Bone morphogenetic protein 7

Product Details

Full Gene Name: bone morphogenetic protein 7

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: BMP7

Alternative Name: BMP7 ([BMP7 Products](#))

Background: Protein Function: Induces cartilage and bone formation. May be the osteoinductive factor responsible for the phenomenon of epithelial osteogenesis. Plays a role in calcium regulation and bone homeostasis.

Background: Bone morphogenetic protein 7 or BMP7 (also known as osteogenic protein-1 or OP-1) is a protein that in humans is encoded by the BMP7 gene. The protein encoded by this gene is a member of the TGF- β superfamily. Like other members of the bone morphogenetic protein family of proteins, it plays a key role in the transformation of mesenchymal cells into bone and cartilage. It is inhibited by noggin and a similar protein, chordin, which are expressed in the Spemann-Mangold Organizer. BMP7 may be involved in bone homeostasis. It is expressed in the brain, kidneys and bladder.

Synonyms: Bone morphogenetic protein 7, BMP-7, Osteogenic protein 1, OP-1, Bmp7, Bmp-7, Op1,

Full Gene Name: Bone morphogenetic protein 7

Cellular Localisation: Secreted.

Gene ID: 12162

UniProt: [P23359](#)

Pathways: [Steroid Hormone Mediated Signaling Pathway](#), [Stem Cell Maintenance](#)

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: A monoclonal antibody from rat specific for BMP-7 has been precoated onto 96-well plates. Standards (Expression system for standard: CHO, Immunogen sequence: S292-H430) and test

Application Details

samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for BMP-7 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 BMP-7 amount of sample captured in plate.

Assay Procedure: 20-25

Restrictions: For Research Use only

Handling

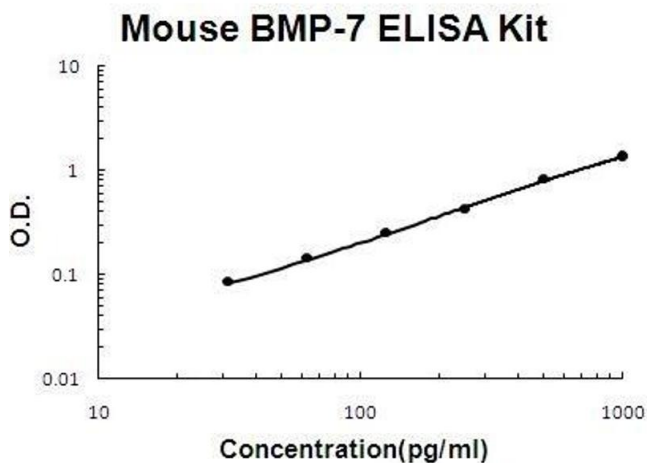
Handling Advice: Avoid multiple freeze-thaw cycles.

Storage: 4 °C, -20 °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

Images



ELISA

Image 1. Mouse BMP-7 PicoKine ELISA Kit standard curve