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## Datasheet for ABIN1889359 Periostin ELISA Kit

1 Image

1 Publication



#### Overview

Quantity:	96 tests
Target:	Periostin (POSTN)
Binding Specificity:	AA 24-836
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	93.7-6000 pg/mL
Minimum Detection Limit:	93.7 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Periostin/OSF2
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: N24-Q836
Specificity:	Expression system for standard: NSO Immunogen sequence: N24-Q836
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:	Periostin (POSTN)
Alternative Name:	POSTN (POSTN Products)
Background:	Protein Function: Induces cell attachment and spreading and plays a role in cell adhesion. May
	play a role in extracellular matrix mineralization. Enhances incorporation of BMP1 in the
	fibronectin matrix of connective tissues, and subsequent proteolytic activation of lysyl oxidase
	LOX
	Background: Periostin, also known as OSF2, is a protein that in humans is encoded by the
	POSTN gene. The International Radiation Hybrid Mapping Consortium mapped the POSTN
	gene to chromosome 13. Periostin functions as a ligand for alpha-V/beta-3 and alpha-V/ beta-
	integrins to support adhesion and migration of epithelial cells. It is found that periostin was
	overexpressed by the majority of human primary breast cancers examined. After myocardial
	infarction, periostin-induced cardiomyocyte cell cycle reentry and mitosis were associated with
	improved ventricular remodeling and myocardial function, reduced fibrosis and infarct size, an
	increase angiogenesis.
	Synonyms: Periostin,PN,Osteoblast-specific factor 2,0SF-2,Postn,Osf2,
	Full Gene Name: Periostin
	Cellular Localisation: Golgi apparatus. Secreted, extracellular space, extracellular matrix.
	Colocalizes with BMP1 in the Golgi.
Gene ID:	50706
UniProt:	Q62009
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 EMI domain.
	Tissue Specificity: Preferentially expressed in periosteum and periodontal ligament. Also

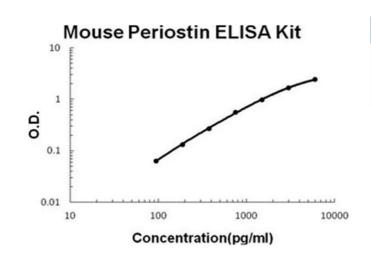
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## Application Details

	expressed in the developing and adult heart
Plate:	Pre-coated
Protocol:	mouse Periostin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from rat specific for Periostin has been precoated
	onto 96-well plates. Standards(NSO, N24-Q836) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for Periostin 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. HRF
	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 Periostin amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 6000pg/mL, 3000pg/mL, 1500pg/mL, 750pg/mL, 375pg/mL,
	187.5pg/mL, 93.7pg/m mouse Periostin 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 Periostin standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 783, Standard deviation: 49.33, CV(%): 6.3
	<ul> <li>Sample 2: n=16, Mean(pg/ml): 1721, Standard deviation: 98.1, CV(%): 5.7</li> </ul>
	<ul> <li>Sample 3: n=16, Mean(pg/ml): 2910, Standard deviation: 142.6, CV(%): 4.9,</li> <li>Sample 1: n 24, Maan (an /ml): 267, Chandrad deviation: (2.2, 0) /(%): 7.2</li> </ul>
	<ul> <li>Sample 1: n=24, Mean(pg/ml): 867, Standard deviation: 63.3, CV(%): 7.3</li> <li>Sample 2: n=24, Mean(pg/ml): 1834, Standard deviation: 143.1, CV(%): 7.8</li> </ul>
	<ul> <li>Sample 3: n=24, Mean(pg/ml): 3127, Standard deviation: 172, CV(%): 5.5</li> </ul>
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
Publications	
Product cited in:	Krencik, Hokanson, Narayan, Dvornik, Rooney, Rauen, Weiss, Rowitch, Ullian: "Dysregulation of

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Images



#### ELISA

**Image 1.** Mouse Periostin/OSF2 PicoKine ELISA Kit standard curve

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