

# **Product datasheet**

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# ARG81838 Mouse Periostin ELISA Kit

Package: 96 wells Store at: 4°C

## Component

Cat. No.	Component Name	Package	Temp
ARG81838-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81838-002	Standard	2 X 10 ng/vial	4°C
ARG81838-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81838-004	Antibody conjugate concentrate (100X)	1 vial (100 μl)	4°C
ARG81838-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81838-006	HRP-Streptavidin concentrate (100X)	1 vial (100 μl)	4°C
ARG81838-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81838-008	25X Wash buffer	20 ml	4°C
ARG81838-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81838-010	STOP solution	10 ml (Ready to use)	4°C
ARG81838-011	Plate sealer	4 strips	Room temperature

#### **Summary**

Product Description	ARG81838 Mouse Periostin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse
	Pariostin in serum, plasma (henarin, EDTA) and cell culture supernatants

Periostin in serum, plasma (heparin, EDTA) and cell culture supernatants.

**Tested Reactivity** Ms **Tested Application** ELISA

Specificity There is no detectable cross-reactivity with other relevant proteins.

Target Name Periostin Conjugation HRP

**Conjugation Note** Substrate: TMB and read at 450 nm.

Sensitivity 46.85 pg/ml

Sample Type Serum, plasma (heparin, EDTA) and cell culture supernatants.

Standard Range 93.7 - 6000 pg/ml

Sample Volume 100 μΙ Precision Intra-Assay CV: 5.8%; Inter-Assay CV: 6.7%

Alternate Names OSF2; PN; Osteoblast-specific factor 2; Periostin; OSF-2; PDLPOSTN

#### **Application Instructions**

Assay Time ~ 5 hours

#### **Properties**

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test

reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol POSTN

Gene Full Name periostin, osteoblast specific factor

Background This gene encodes a secreted extracellular matrix protein that functions in tissue development and

regeneration, including wound healing, and ventricular remodeling following myocardial infarction. The encoded protein binds to integrins to support adhesion and migration of epithelial cells. This protein plays a role in cancer stem cell maintenance and metastasis. Mice lacking this gene exhibit cardiac valve disease, and skeletal and dental defects. Alternative splicing results in multiple transcript variants

encoding different isoforms. [provided by RefSeq, Sep 2015]

Function Enhances incorporation of BMP1 in the fibronectin matrix of connective tissues, and subsequent

proteolytic activation of lysyl oxidase LOX (By similarity). Induces cell attachment and spreading and

plays a role in cell adhesion. May play a role in extracellular matrix mineralization. [UniProt]

Highlight Related products:

<u>Periostin antibodies;</u> <u>Periostin ELISA Kits;</u>

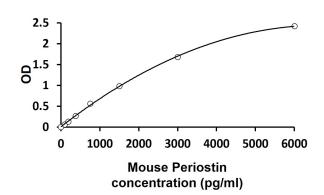
New ELISA data calculation tool: Simplify the ELISA analysis by GainData

PTM Gamma-carboxylation is controversial. Gamma-carboxyglutamated; gamma-carboxyglutamate residues

are formed by vitamin K dependent carboxylation; this may be required for calcium binding

(PubMed:18450759). According to a more recent report, does not contain vitamin K-dependent gamma-

carboxyglutamate residues (PubMed:26273833). [UniProt]



## ARG81838 Mouse Periostin ELISA Kit standard curve image

ARG81838 Mouse Periostin ELISA Kit results of a typical standard run with optical density reading at 450 nm.