

ARG81496 Human Periostin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81496-001	Antibody-Coated Microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81496-002	Standard (Lyophilized)	2 X 10 ng/vial	4°C
ARG81496-003	Standard/Sample Diluent	30 ml (Ready to use)	4°C
ARG81496-004	Antibody Conjugate Concentrate (100X)	1 vial (100 µl)	4°C
ARG81496-005	Antibody Diluent Buffer	12 ml (Ready to use)	4°C
ARG81496-006	HRP-Streptavidin Concentrate (100X)	1 vial (100 µl)	4°C
ARG81496-007	HRP-Streptavidin Diluent Buffer	12 ml (Ready to use)	4°C
ARG81496-008	25X Wash Buffer	20 ml	4°C
ARG81496-009	TMB Substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81496-010	STOP Solution	10 ml (Ready to use)	4°C
ARG81496-011	Plate Sealers	4 strips	Room temperature

Summary

Product Description	ARG81496 Human Periostin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Periostin in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
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	78 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.3% Inter-Assay CV: 6.2%
Alternate Names	OSF2; PN; Osteoblast-specific factor 2; Periostin; OSF-2; PDLPOSTN

Application Instructions

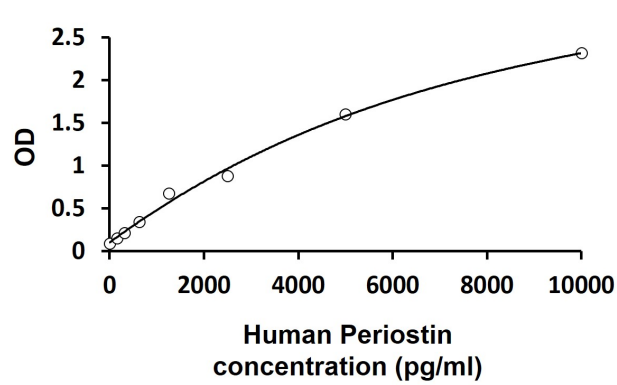
Assay Time	~ 5 hours
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Properties

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: Periostin antibodies ; Periostin ELISA Kits ; 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]



ARG81496 Human Periostin ELISA Kit standard curve image

ARG81496 Human Periostin ELISA Kit results of a typical standard run with optical density reading at 450 nm.