



Human periostin/osteoblast specific factor 2 (POSTN) ELISA kit

Product Code	CSB-E16444h
Abbreviation	POSTN
Protein Biological Process 1	Cell Adhesion
Target Name	periostin/osteoblast specific factor 2 (POSTN)
Uniprot No.	Q15063
Alias	MGC119510, MGC119511, OSF-2, OSF2, PDLPOSTN, PN, RP11-412K4.1, periostin, osteoblast specific factor 2 (fasciclin I-like) periodontal ligament-specific periostin periostin isoform thy2 periostin iso
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Cell adhesion
Sample Types	serum, plasma, tissue homogenates
Detection Range	6.25 ng/mL-400 ng/mL
Sensitivity	1.56 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cardiovascular
Gene Names	POSTN
Tag Info	quantitative
Protein Description	Sandwich

Description

The human Periostin (POSTN) ELISA Kit is engineered for accurate measurement of human POSTN levels from samples including serum, plasma, or tissue homogenates. It uses the Sandwich-ELISA mechanism in combination with the enzyme-substrate chromogenic reaction to measure the POSTN content in the sample. The color intensity is positively correlated with POSTN content in the sample. The POSTN concentration can be calculated according to the standard curve. This kit is tested with high sensitivity, strong specificity, good linearity, high precision and recovery, as well as lot-to-lot consistency.



POSTN, also called OSF2, is a secreted extracellular matrix (ECM) protein expressed in fibroblasts during bone and teeth development. It plays a dynamic role in mediating the communication between cells and the surrounding microenvironment rather than directly participating in the formation of the ECM. POSTN is also involved in bone density and intervertebral disc (IVD) homeostasis. It also mediates inflammation and reconstruction during bronchial asthma, as well as promotes bone development, reconstruction, repair, and strength. Expression of POSTN has been also associated with the progression and drug resistance of different tumors.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human POSTN in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
	Average %	93
1:5	Range %	90-95
	Average %	103
1:10	Range %	99-107
	Average %	94
1:20	Range %	89-97
	Average %	98
1:40	Range %	92-103

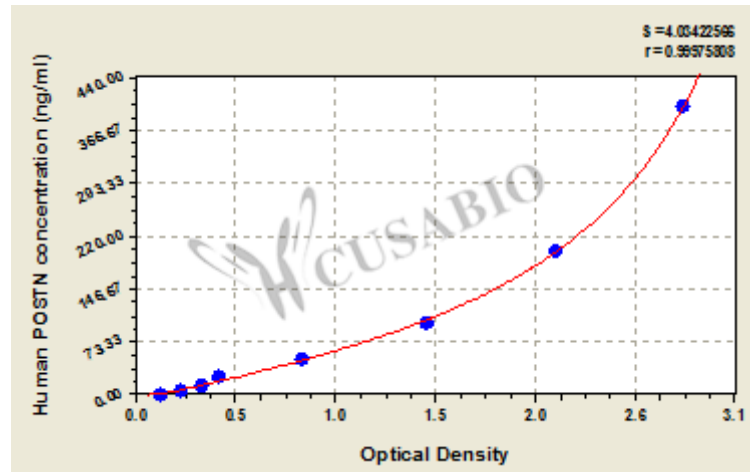
Recovery

The recovery of human POSTN spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	94	89-97
EDTA plasma (n=4)	94	91-97

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
400	2.788	2.803	2.796	2.659
200	2.134	2.154	2.144	2.007
100	1.462	1.516	1.489	1.352
50	0.875	0.839	0.857	0.720
25	0.437	0.424	0.431	0.294
12.5	0.354	0.341	0.348	0.211
6.25	0.245	0.234	0.240	0.103
0	0.138	0.136	0.137	?

Msds

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