

ARG81268 Human OPN / Osteopontin ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG81268 Human OPN / Osteopontin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human OPN / Osteopontin in serum, plasma, urine or cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	OPN / Osteopontin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	32 pg/ml
Sample Type	Serum, plasma, urine or cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl
Alternate Names	BSPI; ETA-1; Uropontin; Osteopontin; Nephropontin; SPP-1; Bone sialoprotein 1; BNSP; Urinary stone protein; OPN; Secreted phosphoprotein 1

Application Instructions

Assay Time	~ 3.5 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	SPP1
Gene Full Name	secreted phosphoprotein 1
Background	The protein encoded by this gene is involved in the attachment of osteoclasts to the mineralized bone matrix. The encoded protein is secreted and binds hydroxyapatite with high affinity. The osteoclast vitronectin receptor is found in the cell membrane and may be involved in the binding to this protein. This protein is also a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]
Function	Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction.

Acts as a cytokine involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-10 and is essential in the pathway that leads to type I immunity. [UniProt]

Highlight

Related products:

[OPN antibodies](#); [OPN ELISA Kits](#);

Related news:

[Detecting MMPs and their non-ECM substrates](#)

[The role of HDGF in tumor angiogenesis](#)

New ELISA data calculation tool:

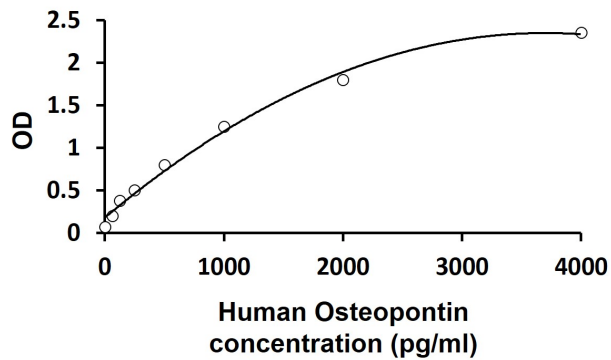
[Simplify the ELISA analysis by GainData](#)

PTM

Extensively phosphorylated by FAM20C in the extracellular medium at multiple sites within the S-x-E/pS motif.

N- and O-glycosylated. Isoform 5 is GalNAc O-glycosylated at Thr-59 or Ser-62.

Images



ARG81268 Human OPN / Osteopontin ELISA Kit standard curve image

ARG81268 Human OPN / Osteopontin ELISA Kit results of a typical standard run with optical density reading at 450 nm.