

Product datasheet

info@arigobio.com

ARG82316 Rat OPN / Osteopontin ELISA Kit

Package: 96 wells Store at: 4°C

Summary

Product Description ARG82316 Rat OPN / Osteopontin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat

OPN / Osteopontin in serum, plasma and cell culture supernatants.

Tested Reactivity Rat
Tested Application ELISA

Specificity Not react with following recombinant Rat proteins: Adiponectin, ApoAl, BMP1, BMP2, BMP3, BMP4,

BMP5, BMP7, CCL2, CCL4, CCL5, CRP, HSP27, HGF, IL1 beta, IL1RA, IL2, IL4, IL5, sIL6R, IL8, IL10, IL12, IL13, IL15, IL17C, IL21, IL23, IFN gamma, MMP2, MMP9, IL2R, PDGF, serpin E1, TGF beta 1, TGF beta 2,

TGF beta 3, TLR1, TLR2, TLR3, TLR9, TNF alpha, TNF RI, TNF RII, VEGF and VEGF R1.

Target Name OPN / Osteopontin

Conjugation HRP

Conjugation Note Read at 450 nm.

Sensitivity 39 pg/ml

Sample Type Serum, plasma and cell culture supernatants.

Standard Range 78 - 5000 pg/ml

Sample Volume $$100~\mu l$$

Precision Intra-Assay CV: 5%

Inter-Assay CV: 10%

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 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 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

www.arigobio.com arigo.nuts about antibodies 1/2

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:

The role of HDGF in tumor angiogenesis
New ELISA data calculation tool:
Simplify the ELISA analysis by GainData

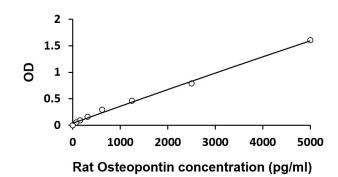
PTM Extensively phosphorylated by FAM20C in the extracellular medium at multiple sites within the S-x-E/pS

motif.

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

Cellular Localization Secreted. [UniProt]

Images



ARG82316 Rat OPN / Osteopontin ELISA Kit standard curve image

ARG82316 Rat OPN / Osteopontin ELISA Kit results of a typical standard run with optical density reading at 450 nm.