

Product datasheet

info@arigobio.com

ARG81668 Mouse OPN / Osteopontin ELISA Kit

Package: 96 wells Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81668-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81668-002	Standard	2 X 10 ng/vial	4°C
ARG81668-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81668-004	Antibody conjugate concentrate (100X)	1 vial (100 μl)	4°C
ARG81668-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81668-006	HRP-Streptavidin concentrate (100X)	1 vial (100 μl)	4°C
ARG81668-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81668-008	25X Wash buffer	20 ml	4°C
ARG81668-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81668-010	STOP solution	10 ml (Ready to use)	4°C
ARG81668-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81668 Mouse OPN / Osteopontin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse OPN / Osteopontin in serum, plasma (heparin, EDTA), urine and cell culture supernatants.			
Tested Reactivity	Ms			
Tested Application	ELISA			
Specificity	There is no detectable cross-reactivity with other relevant proteins.			
Target Name	OPN / Osteopontin			
Conjugation	ugation HRP			
Conjugation Note	Substrate: TMB and read at 450 nm.			
Sensitivity	pple Type Serum, plasma (heparin, EDTA), urine and cell culture supernatants.			
Sample Type				
Standard Range				
Sample Volume	100 μΙ			

Precision Intra-Assay CV: 6.1%; Inter-Assay CV: 7.0%

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

~ 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 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

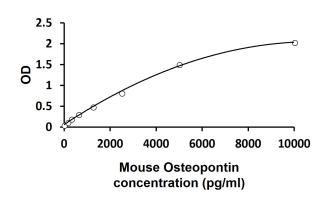
The role of HDGF in tumor angiogenesis

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. [UniProt]



$\label{local-argan} \mbox{ARG81668 Mouse OPN / Osteopontin ELISA Kit standard curve image}$

ARG81668 Mouse OPN / Osteopontin ELISA Kit results of a typical standard run with optical density reading at 450 nm.