

Porcine Osteopontin ELISA Kit | OPN elisa kit

Porcine Osteopontin ELISA Kit

CATALOG #
AAA89607

REACTIVITY
Porcine

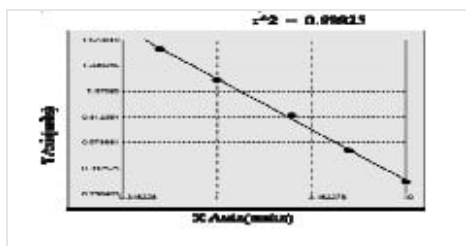
PRODUCT SYNONYMS

Osteopontin; Porcine Osteopontin ELISA Kit; OPN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Porcine
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Sensitivity	1.0 ng/mL.
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for OPN elisa kit

Intended Uses: This OPN ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Porcine OPN. This ELISA kit for research use only!

Principle of the Assay||OPN ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-OPN antibody and an OPN-HRP conjugate. The assay sample and buffer are incubated together with OPN-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the OPN concentration since OPN from samples and OPN-HRP conjugate compete for the anti-OPN antibody binding site. Since the number of sites is limited, as more sites are occupied by OPN from the sample, fewer sites are left to bind OPN-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The OPN concentration in each sample is interpolated from this standard curve.

Product Categories/Family for OPN elisa kit

Cardiovascular

NCBI AND UNIPROT INFORMATION

NCBI GI #	189405
NCBI GeneID	6696
Molecular Weight	33,843 Da
NCBI Official Full Name	osteopontin
NCBI Official Synonym Full Names	secreted phosphoprotein 1
NCBI Official Symbol	SPP1
NCBI Official Synonym Symbols	OPN; BNSP; BSPI; ETA-1
NCBI Protein Information	osteopontin; uropontin; nephropontin; SPP1/CALPHA1 fusion; urinary stone protein; early T-lymphocyte activation 1; osteopontin/immunoglobulin alpha 1 heavy chain constant region fusion protein; secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation 1)
UniProt Protein Name	Osteopontin
UniProt Gene Name	SPP1
UniProt Synonym Gene Names	BNSP; OPN; PSEC0156; SPP-1
UniProt Entry Name	OSTP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/opn-porcine-elisa-kits/osteopontin/89607>