

Canine Osteopontin ELISA Kit | OPN elisa kit

Canine Osteopontin ELISA Kit

CATALOG #
AAA83331

REACTIVITY
Canine

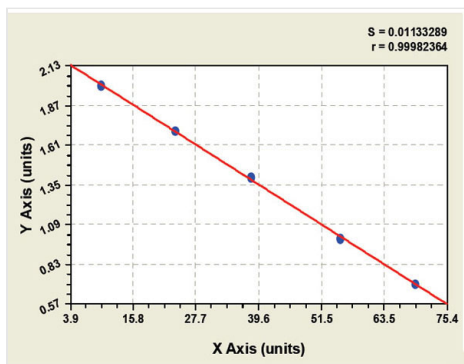
PRODUCT SYNONYMS

Osteopontin; Canine Osteopontin ELISA Kit; OPN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Sandwich
Detection Range	2.5-50ng/mL
Sensitivity	0.1ng/mL
Intended Uses	This OPN ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine OPN. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for OPN elisa kit

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.

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-canine-elisa-kits/osteopontin/83331>