

Canine Zona pellucida sperm-binding protein 3 (ZP3) ELISA Kit | ZP3 elisa kit

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CATALOG #
AAA244422

REACTIVITY
Canine

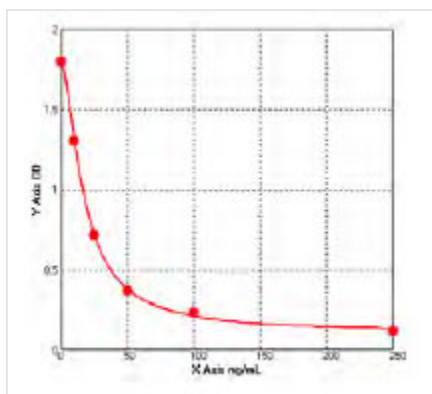
PRODUCT SYNONYMS

Zona pellucida sperm-binding protein 3 (ZP3); Canine Zona pellucida sperm-binding protein 3 (ZP3) ELISA Kit; ZP3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative 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 ZP3 elisa kit

Intended Uses: This ZP3 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine ZP3. This ELISA kit for research use only!

Principle of the Assay: ZP3 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-ZP3 antibody and an ZP3-HRP conjugate. The assay sample and buffer are incubated together with ZP3-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 ZP3 concentration since ZP3 from samples and ZP3-HRP conjugate compete for the anti-ZP3 antibody binding site. Since the number of sites is limited, as more sites are occupied by ZP3 from the sample, fewer sites are left to bind ZP3-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ZP3 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	160358850
NCBI GeneID	7784
NCBI Accession #	NP_001103824.1
NCBI GenBank Nucleotide #	NM_001110354.1
Molecular Weight	41,272 Da
NCBI Official Full Name	zona pellucida sperm-binding protein 3 isoform 1
NCBI Official Synonym Full Names	zona pellucida glycoprotein 3 (sperm receptor)
NCBI Official Symbol	ZP3
NCBI Official Synonym Symbols	ZPC; ZP3A; ZP3B; Zp-3
NCBI Protein Information	zona pellucida sperm-binding protein 3; ZP3A/ZP3B; sperm receptor; zona pellucida protein C; zona pellucida glycoprotein 3B; zona pellucida glycoprotein ZP3; zona pellucida glycoprotein 3A (sperm receptor)
UniProt Protein Name	Zona pellucida sperm-binding protein 3
UniProt Gene Name	ZP3
UniProt Synonym Gene Names	ZP3A; ZP3B; ZPC; Zp-3
UniProt Entry Name	ZP3_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.