

Canine Substance P ELISA Kit | S.P elisa kit

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CATALOG #
AAA16795

REACTIVITY
Canine

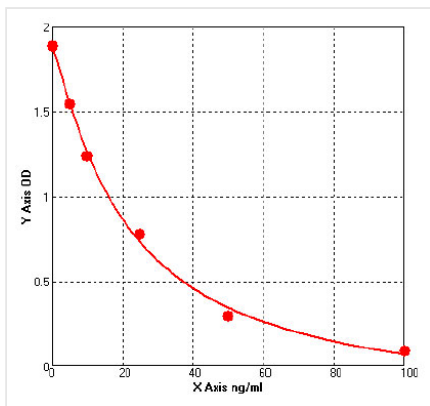
PRODUCT SYNONYMS

Substance P; Canine Substance P ELISA Kit; S.P elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Specificity	This assay has high sensitivity and excellent specificity for detection of SP. No significant cross-reactivity or interference between SP and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between SP and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for S.P elisa kit	Intended Uses: This SP ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of CanineSP. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: SP ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-SP antibody and an SP-HRP conjugate. The assay sample and buffer are incubated together with SP-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 SP concentration since SP from samples and SP-HRP conjugate compete for the anti-SP antibody binding site. Since the number of sites is limited, as more sites are occupied by SP from the sample, fewer sites are left to bind SP-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The SP concentration in each sample is interpolated from this standard curve.
Product Categories/Family for S.P elisa kit	Neurobiology

NCBI AND UNIPROT INFORMATION

NCBI GI #	56068
NCBI GeneID	24806
UniProt Accession #	P06767; P08856; P08857; P22356; Q6LD93
Molecular Weight	11,374 Da
NCBI Official Full Name	substance P
NCBI Official Synonym Full Names	tachykinin, precursor 1
NCBI Official Symbol	Tac1
NCBI Official Synonym Symbols	TAC; PPTA3; Ppt5fl; RATPPTA3
NCBI Protein Information	protachykinin-1; PPT; tachykinin 1; Tachykinin (substance P, neurokinin A, neuropeptide K, neuropeptide gamma)
UniProt Protein Name	Protachykinin-1
UniProt Gene Name	Tac1
UniProt Synonym Gene Names	Nka; Nkna; Tac2; NKA; NPK
UniProt Entry Name	TKN1_RAT

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/s-p-canine-elisa-kits/substance-p/16795>