

Canine Superoxide Dismutases (SOD) ELISA Kit | SOD elisa kit

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CATALOG #
AAA21136

REACTIVITY
Canine

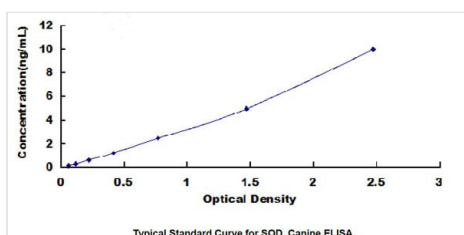
PRODUCT SYNONYMS

Superoxide Dismutases (SOD); Canine Superoxide Dismutases (SOD) ELISA Kit; SOD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Specificity	This assay has high sensitivity and excellent specificity for detection of SOD. No significant cross-reactivity or interference between SOD and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Canine serum, plasma, tissue homogenates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.067ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SOD were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level SOD were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all the reagents should be kept according to the label on each vial. The Standard, Detection Reagent A, Detection Reagent B and the 96-well strip plate should be stored at -20 degree C while others should be at 4 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SOD elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to SOD. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to SOD. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain SOD, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of SOD in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of SOD in canine serum, plasma, tissue homogenates and other biological fluids.
References	Effects of a Saccharomyces cerevisiae fermentation product-supplemented diet on fecal characteristics, oxidative stress, and blood gene expression of adult dogs undergoing transport stress; J Anim Sci; 2023 Jan 3;101:skac378.; PMID: 36373401; Sofia M Wilson; Department of Animal Sciences, University of Illinois at Urbana-Champaign, Urbana, IL 61801, USA.

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://www.aaabiotech.com/canine-elisa-kits/superoxide-dismutases-sod/21136>