

Sheep Superoxide Dismutase 2, Mitochondrial ELISA Kit | SOD2 elisa kit

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CATALOG #
AAA92839

REACTIVITY
Sheep

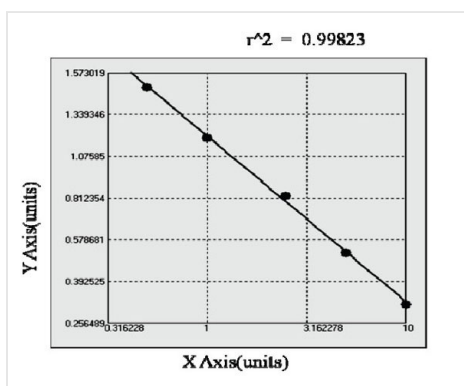
PRODUCT SYNONYMS

Superoxide Dismutase 2; Mitochondrial; Sheep Superoxide Dismutase 2; Mitochondrial ELISA Kit; SOD2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Sheep
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Sensitivity	0.1 ug/mL.
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SOD2 elisa kit

Intended Uses: This SOD2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Sheep SOD2. This ELISA kit for research use only!

Principle of the Assay: SOD2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-SOD2 antibody and an SOD2-HRP conjugate. The assay sample and buffer are incubated together with SOD2-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 SOD2 concentration since SOD2 from samples and SOD2-HRP conjugate compete for the anti-SOD2 antibody binding site. Since the number of sites is limited, as more sites are occupied by SOD2 from the sample, fewer sites are left to bind SOD2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The SOD2 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	15214595
NCBI GeneID	6648
Molecular Weight	19,730 Da
NCBI Official Full Name	Superoxide dismutase 2, mitochondrial
NCBI Official Synonym Full Names	superoxide dismutase 2, mitochondrial
NCBI Official Symbol	SOD2
NCBI Official Synonym Symbols	IPOB; MNSOD; MVCD6
NCBI Protein Information	superoxide dismutase [Mn], mitochondrial; superoxide dismutase [Mn], mitochondrial; indophenoloxidase B; Mn superoxide dismutase; mangano-superoxide dismutase; manganese-containing superoxide dismutase
UniProt Protein Name	Superoxide dismutase [Mn], mitochondrial
UniProt Gene Name	SOD2
UniProt Entry Name	SODM_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/sod2-sheep-elisa-kits/superoxide-dismutase-2-mitochondrial/92839>