

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

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CATALOG #
AAA98614

REACTIVITY
Rat

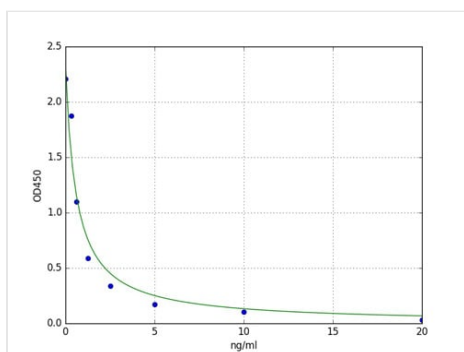
PRODUCT SYNONYMS

Superoxide Dismutase 2; Mitochondrial; Rat Superoxide Dismutase 2; Mitochondrial ELISA Kit; SOD2 (Superoxide dismutase [Mn]; mitochondrial)/IPO-B/Mn SOD/SOD; Mitochondrial/indophenoloxidase B/IPOB/manganese-containing superoxide dismutase/mangano-superoxide dismutase/Mn superoxide dismutase/MNSOD/MVCD6/superoxide dismutase [Mn]; mitochondrial/superoxide dismutase 2; mitochondrial; SOD2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Sequence Length	222
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

Typical Data & Standard Curve

Results of a typical standard run of a Rat SOD2 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.313	0.625	1.25	2.5	5	10	20
Y	OD450	2.156	1.801	1.536	1.206	0.888	0.606	0.459	0.357

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SOD2 elisa kit

Principle of the Assay||This ELISA kit uses Competitive-ELISA as the method. The microtiter plate provided in this kit has been pre-coated with Rat SOD2. During the reaction, Rat SOD2 in the sample or standard competes with a fixed amount of Rat SOD2 on the solid phase supporter for sites on the Biotinylated Detection Antibody specific to Rat SOD2. Excess conjugate and unbound sample or standard are washed from the plate, and HRP-Streptavidin (SABC) is added to each microplate well and incubated. Then a TMB substrate solution is added to each well. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. The concentration of Rat SOD2 in the samples is then determined by comparing the O.D. of the samples to the 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
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://www.aaabiotech.com/sod2-rat-elisa-kits/superoxide-dismutase-2-mitochondrial/98614>