

Rat superoxide dismutase 3, extracellular ELISA Kit | SOD3 elisa kit

Rat extracellular superoxide dismutase [Cu-Zn]

CATALOG #
AAA80806

REACTIVITY
Rat

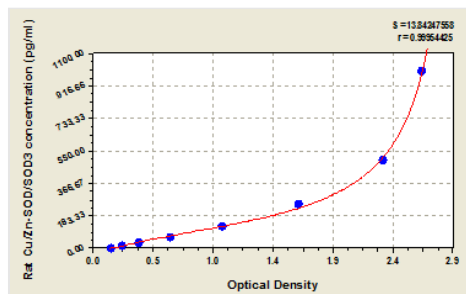
PRODUCT SYNONYMS

superoxide dismutase 3; extracellular; Rat extracellular superoxide dismutase [Cu-Zn]; Rat extracellular superoxide dismutase [Cu-Zn] (Cu/Zn-SOD/SOD3) ELISA kit; EC-SOD; MGC20077; ; SOD3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of rat Cu/Zn-SOD/SOD3. No significant cross-reactivity or interference between rat Cu/Zn-SOD/SOD3 and analogues was observed.
Sequence Length	244
Samples	Serum, plasma, cell culture supernates, tissue homogenates
Assay Type	Sandwich
Detection Range	15.6 pg/ml -1000 pg/ml.
Sensitivity	The minimum detectable dose of rat Cu/Zn-SOD/SOD3 is typically less than 3.9 pg/ml. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean O.D value of 20 replicates of the zero standard added by their three standard deviations.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SOD3 elisa kit	Principle of the assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for Cu/Zn-SOD/SOD3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any Cu/Zn-SOD/SOD3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for Cu/Zn-SOD/SOD3 is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of Cu/Zn-SOD/SOD3 bound in the initial step. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	130508879
NCBI GeneID	100009320
NCBI Accession #	NP_001076101.1
NCBI GenBank Nucleotide #	NM_001082632.1
UniProt Accession #	P41975
Molecular Weight	25,688 Da
NCBI Official Full Name	extracellular superoxide dismutase
NCBI Official Symbol	SOD3
NCBI Protein Information	extracellular superoxide dismutase [Cu-Zn]; extracellular superoxide dismutase [Cu-Zn]; EC-SOD; Extracellular superoxide dismutase
UniProt Protein Name	Extracellular superoxide dismutase [Cu-Zn]
UniProt Gene Name	SOD3
UniProt Synonym Gene Names	EC-SOD
UniProt Entry Name	SODE_RABIT

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/sod3-rat-elisa-kits/superoxide-dismutase-3-extracellular/80806>