

Human Superoxide Dismutase, Copper Chaperone (SOD4) ELISA Kit | SOD4 elisa kit

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CATALOG #
AAA136643

REACTIVITY
Human

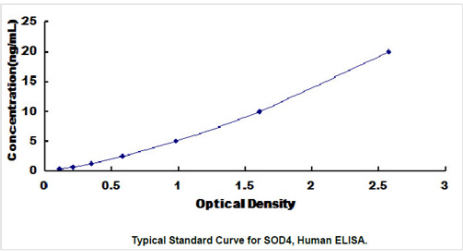
PRODUCT SYNONYMS

Superoxide Dismutase; Copper Chaperone (SOD4); Human Superoxide Dismutase; Copper Chaperone (SOD4) ELISA Kit; CCS; Copper Chaperone For Superoxide Dismutase; SOD4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Superoxide Dismutase, Copper Chaperone (SOD4). No significant cross-reactivity or interference between Superoxide Dismutase, Copper Chaperone (SOD4) and analogues was observed.
Sequence Length	152
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.113ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Superoxide Dismutase, Copper Chaperone (SOD4) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Superoxide Dismutase, Copper Chaperone (SOD4) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SOD4 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Superoxide Dismutase, Copper Chaperone (SOD4). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Superoxide Dismutase, Copper Chaperone (SOD4). 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 Superoxide Dismutase, Copper Chaperone (SOD4), 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 Superoxide Dismutase, Copper Chaperone (SOD4) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for SOD4 elisa kit	Enzyme & Kinase; Metabolic pathway; Developmental science

NCBI AND UNIPROT INFORMATION

NCBI GI #	162463249
NCBI GeneID	542722
NCBI Accession #	NP_001105704.1
NCBI GenBank Nucleotide #	NM_001112234.1
Molecular Weight	15,071 Da
NCBI Official Full Name	superoxide dismutase
NCBI Official Synonym Full Names	superoxide dismutase4
NCBI Official Symbol	sod4
NCBI Official Synonym Symbols	sod4ap; SODCC.2
NCBI Protein Information	superoxide dismutase [Cu-Zn] 4AP
UniProt Protein Name	Superoxide dismutase [Cu-Zn] 4AP
UniProt Gene Name	SODCC.2
UniProt Synonym Gene Names	SOD4AP
UniProt Entry Name	SODC5_MAIZE

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.